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FIREFIGHTER INFORMATIONAL TUTORIAL



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Daniel A. Nigro
Fire Commissioner

July 5, 2017

Dear Applicants,

This test preparation guide has been assembled to help prepare you for the upcoming New York City Firefighter exam, and was developed to complement the online tutorial that you'll find on the DCAS website (nyc.gov).

This booklet will provide you with valuable test and note-taking tips, along with sample math and reading comprehension exercises. In addition, the new exam format includes video exercises which will help applicants judge how well they are taking notes, retaining information and answering questions.

I want to thank the FDNY Recruitment & Retention team for preparing this booklet. I also want to thank each applicant for attending these sessions and taking advantage of the opportunity to learn as much as you can about the test.

I began my career as a Firefighter in 1969, rising through all of the ranks, and now, as Fire Commissioner, I can tell you there is no better job in the world than being one of New York City's Bravest. I, therefore, encourage you to study and work hard in preparation for the upcoming test.

I wish each and every one of you good luck on the test!

Sincerely,

Daniel A. Nigro
Fire Commissioner

DAN/yk

Fire Department, City of New York

9 MetroTech Center Brooklyn New York 11201-3857

TABLE OF CONTENTS

SUGGESTED READING COMPREHENSION TIPS.....	6
DEPARTMENT CITYWIDE ADMINISTRATIVE SERVICES (DCAS) TUTORIAL VIDEOS 1& 2.....	8
NATURAL BORN KILLERS.....	9
Natural Born Killers – PRACTICE TEST QUESTIONS.....	10
SUGGESTED TIPS FOR SOLVING MATH WORD PROBLEMS.....	12
NUTRITION FACTS MATH QUIZ	15
BASIC MATH QUESTIONS.....	16
HELPFUL WEBSITES	19
SUGGESTED TEST TAKING TIPS	20
SUGGESTED NOTE TAKING TIPS.....	21
“HOW TO DO CPR ON AN INFANT” by videojugparenting (5:34)	22
How to Do CPR on an Infant – QUESTIONS.....	26
“HOW TO REPLACE A KITCHEN SINK” by Lowe’s Canada (5:53).....	32
How to Do CPR on an Infant – QUESTIONS	35
EXERCISES CONTINUED	39
“HOW TO INSTALL A CERAMIC TILE FLOOR” by Lowe’s Canada (4:20).....	40
“HOW TO INSTALL A CERAMIC TILE FLOOR” by Lowe’s Canada (4:20) - QUESTIONS	45
“HOW TO: REPLACING A TOILET” by Lowe’s Canada (6:08)	49
“HOW TO: REPLACING A TOILET” by Lowe’s Canada (6:08) - QUESTIONS.....	52
PAIN RELIEVERS COMPREHENSION QUIZ.....	56
NUTRITION FACTS COMPREHENSION QUIZ	60
BASIC MATH QUESTION ANSWERS EXPLAINED	64
ANSWER KEY	66
IMPORTANT PHONE NUMBERS & WEBSITES.....	68
FDNY AFFINITY ORGANIZATIONS	69
REFERENCE MATERIAL: NOTICE OF EXAMINATION (NOE)	70

SUGGESTED READING COMPREHENSION TIPS

Reading the Passage

A common mistake among reading comprehension test takers is the assumption that they do not need to read the whole passage presented to them. While it may be possible to skip to the questions and then go back and attempt to answer each question individually by finding the part of the passage that **deals** with that question, this tactic causes you to have a hazy understanding of the passage as a whole, and may lead to confusion. It is always a good idea to read though the entire passage at least once, even if that read is brief.

Time Management

Most standardized tests have time limits for each section. Time constraints can be particularly troublesome for reading comprehension sections, as the sheer amount of reading that must be done between the passages and questions can take all of the allotted time. It is important to know how many total passages you have to read and roughly how many questions there are for each passage before you begin the exam. Take your total time limit for the reading comprehension section and divide it by the total number of passages. This number is about how many minutes you should spend on each section. If you run into a particularly difficult question, consider skipping it and coming back later if time allows. Wasting too much time on one question may hurt you later in the test.

Other Considerations

There's no better way to increase reading comprehension scores than to practice doing it. Take practice tests to improve your reading comprehension skills and to determine what type of questions are normally asked and how long it takes you to complete passages. Also consider reading material like scholarly journals and newspapers to become accustomed to absorbing dense information. Practicing helps you increase your test-taking speed and allow you to pinpoint the areas that you need to work on the most.

Read More:

[Reading Comprehension Test Tips | eHow.com](http://www.ehow.com/way_5256779_reading-comprehension-test-tips.html#ixzz1nlxmHArR)

http://www.ehow.com/way_5256779_reading-comprehension-test-tips.html#ixzz1nlxmHArR

Read the Instructions Carefully

Before you can expect to answer any question correctly, you've got to make sure you know exactly what you are being asked to do. Don't rush through the instructions.

Don't Get Stuck on a Word

Difficult words become easier to comprehend when you read through the sentences surrounding them.

Keeping Track of Time

Reading comprehension tests are timed tests, so use your time to answer first as many of the easiest questions as possible. You don't want to run out of time before you have a chance to answer all the "easy" questions first.

Don't *Add* Any Facts

Base your answers on the facts and information contained in the reading passage.

ABOUT THE DCAS COMPUTER BASED SYSTEM:

Below is the link that provides information on how to use the Computer Base Test system. The topics covered on the first link covers how to use a computer mouse, how to play and re-play videos & audio files. Also, the first link has information on how to navigate through the CBT.

http://www.nyc.gov/html/dcas/html/work/firefighter_cbt_test_tutorial_2017.shtml

TEST OVERVIEW WITH SAMPLE QUESTIONS:

The below link will give you an over view of the type of questions that is presented on the CBT system. It describes the features of the test.

http://www.nyc.gov/html/dcas/html/work/firefighter_cbt_test_tutorial_2017_2.shtml

NATURAL BORN KILLERS

By Kurt Loft
of The Tampa Tribune

Scientists hope to take the sting out of those dreaded killer bees. A team of researchers has isolated a gene responsible for the aggressive behavior of Africanized honey bees, which have terrorized people and animals in their slow migration into the southern United States.

Scientists located DNA markers on the chromosomes of the mean bees and compared the genes with those of nonaggressive species. Their research may lead to the origins of a trait that could help "predict the probability of queen bees having the African version of stinging genes so it will be easier for breeders to avoid using them," says Robert E. Page, an entomologist at the University of California at Davis.

Borrowing techniques from crop genetics, the team ultimately hopes to turn killers into kinder, gentler insects. Bees are essential to honey production, and a third of the food grown in the United States comes from plants pollinated by honey bees. The U.S. Department of Agriculture in 1993 committed nearly \$1.8 million to Africanized bee research, and the current study was funded by the National Institutes of Health.

Killer bees are known to swarm in larger numbers than typical honey bees, releasing a pheromone odor that stimulates the rest of the colony. The odor comes from the stinger itself, which dislodges from the insect's abdomen upon stinging.

Swarms of killer bees are 20 times more likely to sting than normal honey bees, and leave eight times as many stingers in a victim in the first 30 seconds, researchers say.

The first fatality attributed to killer bees in this country happened in July 1993, when 82-year-old Lino Lopez was stung at his ranch near Rio Grande City, Texas. In October of that year, a swarm of 30,000 killer bees terrorized a neighborhood in Peoria, Arizona, for nine hours, with three people injured from stings and three dogs killed. Authorities in Mexico, where killer bees concentrate, have reported roughly 20 deaths a year since 1986, mostly in areas with poor medical care.

Killer bees were imported to Brazil from Africa more than 40 years ago. The idea was to crossbreed African and South American species to produce a gentle bee with high honey production. African bee colonies can produce five times as much honey as their South American cousins. As a result, Brazil rose from 27th to fourth in the world's honey production, according to the U.S. Department of Agriculture.

Unfortunately, a Brazilian scientist accidentally released some of the captive insects from Africa. The mean bees soon mated with indigenous colonies and their aggressive behavior spread.

They moved into Central America and were documented in Mexico in 1988. Within three years, scientists think, most wild bees in Mexico contained DNA from the African species, and killers were found in California, Texas, New Mexico and Arizona.

Bee stings aren't so much "aggressive" behavior as defensive says Greg Hunt, an entomologist at Purdue University in Indiana. "Different insects use various methods to protect themselves from predators. Bee stings are a response to predation by mammals – bee venom is specialized for causing pain."

Natural Born Killers – PRACTICE TEST QUESTIONS

1. **The author's purpose in writing this article was to**
 - a. Explain what bee researchers have found.
 - b. Warn people about the dangers of killer bees.
 - c. Describe the movement of bees around the world.
 - d. Inform people about the harmful nature of bee stings.

2. **An entomologist has described the stinging behavior of bees as**
 - a. Aggressive
 - b. Defensive
 - c. Speculative
 - d. Destructive

3. **How will scientist use DNA markers to help breeders?**
 - a. To determine which queen bees have aggressive genes
 - b. To determine which queen bees have nonaggressive genes
 - c. To determine which queen bees will produce larger colonies
 - d. To determine which queen bees will produce smaller colonies

4. **Scientist hope to stop killer bees by**
 - a. Using Poison
 - b. Controlling Breeding
 - c. Removing Their Stingers
 - d. Importing Bees from Africa

5. **What triggers the swarming behavior of killer bees?**
 - a. Heat
 - b. Light
 - c. Smell
 - d. Sound

6. **The release of pheromones results in**
 - a. The dislodgment of the stinger
 - b. A chain reaction of aggressiveness
 - c. The stimulation of typical honey bees
 - d. A larger number of stingers left in a victim

7. **Why did Brazilian scientist import African bees?**
- a. To produce a gentle bee with low honey production
 - b. To produce a gentle bee with high honey production
 - c. To produce an aggressive bee with low honey production
 - d. To produce an aggressive bee with high honey production
8. **According to the article, what was the movement pattern of killer bees after Africa?**
- a. Central America, South America, United States
 - b. Central America, United States, South America
 - c. South America, United States, Central America
 - d. South America, Central America, United States

ANSWER KEY FOR NATURAL "BORN KILLERS" LOCATED ON PAGE 66.

SUGGESTED TIPS FOR SOLVING MATH WORD PROBLEMS

There are two steps to solving math word problems:

1. Translate the wording into a numeric equation that combines smaller "expressions"
2. Solve the equation!

Suggestions:

- Read the problem entirely. Get a feel for the whole problem
- List information and the variables you identify. Attach units of measure to the variables (gallons, miles, inches, etc.)
- Define what answer you need, as well as its units of measure
- Work in an organized manner. Working clearly will help you think clearly
 - a. Draw and label all graphs and pictures clearly
 - b. Note or explain each step of your process. This will help you track variables and remember their meanings.
- Look for the "key" words (above). Certain words indicate certain mathematical operations:

Math Expressions (examples): after you review the keywords, [test yourself](#)

	addition: $5+x$	subtraction: $5-x$
	multiplication: $5*x$; $5x$	division: $5 \div x$; $5/x$
Exercise: ("mouse over" the block for answer)		
Key words for addition + increased by; more than; combined together; total of; sum; added to		
What is the sum of 8 and y?	$8 + y$	
Express the number (x) of apples increased by two	$x + 2$	
Express the total weight of Alpie the dog (x) and Cyrus the cat (y)	$x + y$	
What is four less than y	$y - 4$	
What is nine less than a number (y)	$y - 9$	
What if the number (x) of pizzas was reduced by 6?	$x - 6$	
What is the difference of my weight (x) and your weight (y)	$x - y$	
Key words for multiplication * x or integers next to each other (5y, xy): of, times, multiplied by		
What is y multiplied by 13	$13y$ or $13 * y$	
Three runners averaged "y" minutes. Express their total running time:	$3y$	
I drive my car at 55 miles per hour. How far will I go in "x" hours?	$55x$	
Key words for division \div / per, a; out of; ratio of, quotient of; percent (divide by 100)		
What is the quotient of y and 3	$y/3$ or $y \div 3$	
Three students rent an apartment for \$ "x" /month. What will each have to pay?	$x/3$ or $x \div 3$	
"y" items cost a total of \$25.00. Express their average cost:	$25/y$ or $25 \div y$	

More Vocabulary and Key Words:

- **"Per" means "divided by"**
as "I drove 90 miles on three gallons of gas, so I got 30 miles per gallon."
(Also 30 miles/gallon)
- **"a" sometimes means "divided by"**
as in "When I filled up, I paid \$10.50 for three gallons of gasoline,
so the gas was 3.50 a gallon, or \$3.50/gallon
- **"less than"**
If you need to translate "1.5 less than x", the temptation is to write "1.5 - x". **DON'T!**
Put a "real world" situation in, and you'll see how this is wrong: "He makes \$1.50 an hour less than me." You do NOT figure his wage by subtracting your wage from \$1.50.
Instead, you subtract \$1.50 from your wage
- **"quotient/ratio of" constructions**
If a problem says "the ratio of x and y",
it means "**x divided by y**" or x/y or $x \div y$
- **"difference between/of" constructions**
If the problem says "the difference of x and y",
it means "**x - y**"

What if the number (x) of children was reduced by six, and then they had to share twenty dollars? How much would each get?	$20/(x - 6)$
What is 9 more than y?	$y + 9$
What is the ratio of 9 more than y to y?	$(y + 9)/y$
What is nine less than the total of a number (y) and two	$(y + 2) - 9$ or $y - 7$
The length of a football field is 30 yards more than its width "y". Express the length of the field in terms of its width y	$y + 30$

<http://www.studygs.net/mathproblems.htm>

NUTRITION FACTS MATH QUIZ

Directions: Compare the nutritional value of the four items & respond to the questions.

Item A – Vegetable Chips

NutritionFacts	
Serving Size 1oz (28g/about 14 chips)	
Servings Per Container About 8	
Amount Per Serving	
Calories 150	Calories from Fat 80
% Daily Value*	
Total Fat 9g	14%
Saturated Fat 1g	5%
Trans Fat 0g	0%
Cholesterol 0mg	0%
Sodium 150mg	6%
Total Carbohydrate 16g	5%
Dietary Fiber 3g	12%
Sugars 3g	
Protein 1g	
Vitamin A 8%	Vitamin C 8%
Calcium 2%	Iron 2%

Item B – Rice Cakes

NutritionFacts	
Serving Size 18 Mini Cakes (30g)	
Servings Per Container About 6	
Amount Per Serving	
Calories 140	Calories from Fat 45
% Daily Value*	
Total Fat 5g	8%
Saturated Fat 0.5g	4%
Trans Fat 0g	0%
Cholesterol 0mg	0%
Sodium 410mg	17%
Total Carbohydrate 21g	7%
Dietary Fiber 1g	4%
Sugars 1g	
Protein 2g	
Vitamin A 0%	Vitamin C 0%
Calcium 0%	Iron 0%

Item C – Fruit & Nut Trail Mix

NutritionFacts	
Serving Size 1/3 Cup (44g)	
Servings Per Container About 21	
Amount Per Serving	
Calories 170	Calories from Fat 40
% Daily Value*	
Total Fat 4.5g	7%
Saturated Fat 2g	11%
Trans Fat 0g	0%
Cholesterol 0mg	0%
Sodium 30mg	1%
Total Carbohydrate 31g	10%
Dietary Fiber 2g	8%
Sugars 22g	
Protein 2g	
Vitamin A 0%	Vitamin C 2%
Calcium 2%	Iron 4%

Item D – Pretzel Twists

NutritionFacts	
Serving Size 1oz (About 8 Pretzels)	
Servings Per Container About 10	
Amount Per Serving	
Calories 110	Calories from Fat 10
% Daily Value*	
Total Fat 1g	1%
Saturated Fat 0g	5%
Trans Fat 0g	0%
Cholesterol 0mg	0%
Sodium 230mg	10%
Total Carbohydrate 23g	8%
Dietary Fiber 1g	4%
Sugars 3g	
Protein 2g	
Vitamin A 0%	Vitamin C 0%
Calcium 0%	Iron 8%

BASIC MATH QUESTIONS

1. Firefighter Harris ate one cup of Fruit & Nut Trail Mix. What percentage of Saturated Fat did she have (% Daily Value)
 - a. 6%
 - b. 11%
 - c. 33%
 - d. 21%
2. She also consumed 12 Pretzel Twists. How many milligrams of Sodium did she have from the Pretzel Twists?
 - a. 445 mg
 - b. 460 mg
 - c. 345 mg
 - d. 360 mg
3. How many more grams of Total Carbohydrates did she have in the Fruit & Nut Trail Mix versus the Pretzel Twists?
 - a. 23 g
 - b. 58.5 g
 - c. 34.5 g
 - d. 54 g
4. Lt. Smith tried the Rice Cakes, but could only eat $4\frac{1}{2}$. What percentage of Total Fat did he get from the Rice Cakes (% Daily Value)?
 - a. 2%
 - b. 4%
 - c. 6%
 - d. 16%
5. Lt. Smith was in a healthy mood so he had about 56 Vegetable Chips. How many grams of protein did he have after eating both the Rice Cakes and the Vegetable Chips?
 - a. 3 g
 - b. 1.5 g
 - c. 4.5 g
 - d. 9 g

6. The Vegetable Chips that Lt. Smith ate had how much more Dietary Fiber than FF Harris' Fruit & Nut Trail Mix and Pretzel Twists combined?
- 6 g
 - 12 g
 - 7.5 g
 - 4.5 g
7. FF Johnson was thinking about the Mini Rice Cakes on his way to work and had 36 Mini Cakes as soon as he got to the Firehouse. How many total Calories did he consume?
- 140
 - 240
 - 280
 - 210
8. How much more Sodium did FF Johnson have than FF Harris?
- 385 mg
 - 435 mg
 - 345 mg
 - 410 mg
9. FF Johnson bragged to FF Harris that he had eaten less Total Carbohydrates than her. How much less Total Carbs had he eaten?
- 34.5 g
 - 93 g
 - 43.5 g
 - 85.5 g
10. FF Harris reminded FF Johnson that carbs are 'Fuel for the Fire Floor' and that in addition she had eaten more Protein than him as well which would help her build more muscle. How much more protein did she have?
- 4 g
 - 3 g
 - 5 g
 - 6g

STOP!!!

HELPFUL WEBSITES

THE FOLLOWING WEBSITES MAY PROVIDE ADDITIONAL HELP:

MATH WEBSITES

<http://www.howtostudy.org>

<http://mathforum.org/teachers/adult.ed/>

<http://www.themathpage.com/index.html>

READING COMPREHENSION WEBSITES

<http://www.majortests.com/sat>

<http://fcit.usf.edu/fcat10r/home/practice-tests>

ALL VIDEOS REFERENCED IN THIS BOOKLET CAN BE FOUND @ www.youtube.com, BY TYPING THE EXACT VIDEO NAME INTO THEIR SEARCH ENGINE.

SUGGESTED TEST TAKING TIPS

- Review the free online tutorial at www.nyc.gov/dcas
- Review the Firefighter Informational Tutorial instructional materials, practice tests, etc.
- Eat a light meal which will give you energy and help you focus; avoid heavy foods.
- Get eight hours of sleep the night before your exam.
- Know directions to the test site in advance.
- Strive to arrive early to your scheduled exam. Allow for travel delays.
- Only bring permitted materials that are on your admissions card.
**** Don't bring electronic devices!!!****
- Be sure to read all instructions carefully.
- Be on the lookout for questions that may have more than 1 answer!!!
- Each section is timed. Pay close attention to the time left in each section.
- If you have extra time left after finishing a section, go back and check your answers.
- Make sure to utilize your scrap paper.
- Relax; don't worry if others finish before you!

www.testtakingtips.com/test/genpre.htm

<http://www.studygs.net/>

<http://pennstatelearning.psu.edu/test-taking-tips>

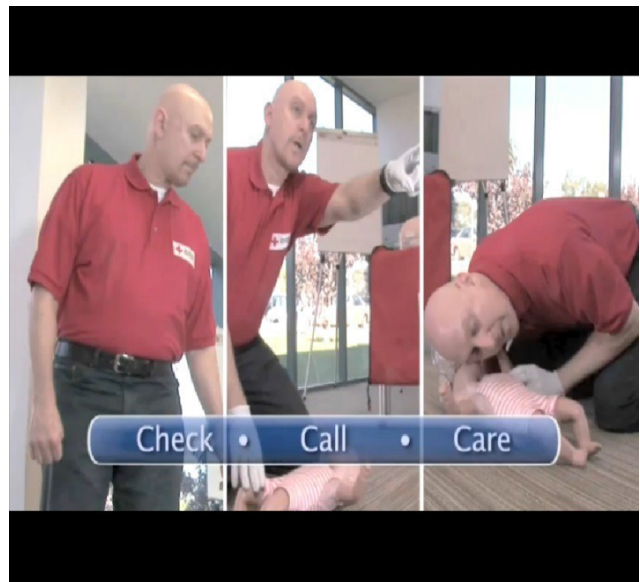
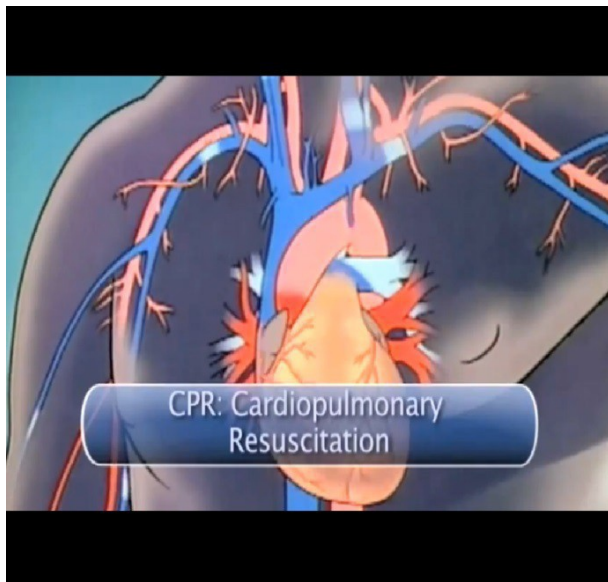
SUGGESTED NOTE TAKING TIPS

- Read video guide material.
- Watch video 3 times.
- Pay close attention!!! Concentrate!!!
- Don't take any notes the 1st time you watch the video. Just listen.
****Taking notes while watching the video may cause you to miss important information.****
- Take extensive notes in the 'Training Guide' the 2nd & 3rd times you watch the video.
- Remember!!! You will not be allowed to return to the video once you move to the question section.
- Use abbreviations.
- Review your notes.

Click the link below with keeping the suggested note taking tips in mind. Watch the video three times then answer the questions following the video. Good Luck!

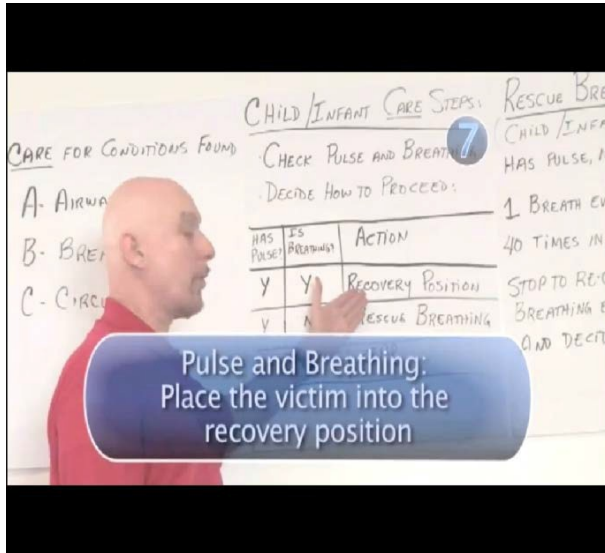
<https://www.youtube.com/watch?v=cZxui-KQQZc>

“HOW TO DO CPR ON AN INFANT” by videojugparenting (5:34)



NOTES:

“How to do CPR on an Infant” by videojugparenting (5:34) - continued



NOTES:

STOP!!!

How to Do CPR on an Infant – QUESTIONS

You have just watched the video titled “How to do CPR on an Infant” by videojugparenting (5:34). The following multiple choice questions are based on that video. Please select the answer that best fits the Question. Good luck!

1. **What does the abbreviation CPR stand for?**
 - a. Circulatory Pressure Regulations
 - b. Cardio Pressing Restriction
 - c. Circulating Pumping Resuscitation
 - d. Cardio Pulmonary Resuscitation

2. **What functions does performing CPR do for the body?**
 - a. Pumps oxygen-rich blood into the heart and brain
 - b. Assists the victims digestive system
 - c. Purifies bad blood cells and turns them into good blood cells
 - d. Regulates the victim pressure and provides blood to the heart

3. **What are the first 3 steps referred to in the video?**
 - a. Check , Call, Care
 - b. Clear, Check, Circulate
 - c. Communicate, Call, Circulate
 - d. Check, Call, Transport

4. **When arriving at a scene to an emergency, you should know one of the first things to check for in the correct order is...**
 - a. Look around for bystanders, Check victim, then call 911, check for breathing
 - b. Call 911 for assistance, start compressions, evaluate the scene
 - c. Check the scene for safety, check number of victims, look around for bystanders, now check victim
 - d. Call the Fire Department, now check victim, then start compressions

5. **The best way to find out if the victim is conscious is to...**
 - a. Ask the bystander that witnessed what happened
 - b. Tap and shout at the victim to see if they respond to you
 - c. Assume victim is unconscious and start performing CPR
 - d. Check for pulse

6. If you find the victim unconscious, or presenting any other life threatening condition what should be your next action?
- Immediately start CPR
 - Call 911 yourself, to make sure they respond
 - Have a bystander call 911 because that is preferred
 - The preferred method is to start CPR then Call 911
7. The ABC's of patient care were shown in which steps?
- Step 5, Step 6, Step 7
 - Step A, Step B, Step C
 - Step 4, Step5, Step,6
 - Step 3, Step 4, Step 5
8. "Care" involves the ABCs taught in CPR in this video. What does ABC stand for?
- Airflow, Breathing, Cardiac
 - Airway, Bypass, Circulate
 - Airflow, Breathing, Call
 - Airway, Breathing, Circulation
9. To open airway, tilt the head back, lift the chin and look, listen and feel for _____
- At least 5 seconds
 - No more than 10 seconds
 - Until to you see signs of the victim moving after 10 seconds
 - A little more than 10 seconds
10. After you look, listen and feel, and find that the infant is not breathing, what should be your next step?
- Give 2 Chest Compressions
 - Give 2 Rescue Breaths
 - Give 3 Rescue Breaths
 - Give 2 Chest Compressions and 2 Rescue Breaths
11. A barrier should be used to avoid contact with bodily fluids. What agency recommends this protection?
- You do not need a barrier protection for an infant
 - NY State Department of Health
 - FDNY EMS Training Academy
 - Red Cross

12. **Two Rescue Breaths went into the infant successfully. What should the next steps be?**
- Lay the infant into the recovery position and wait for EMS
 - Look over the body check for bleeding and begin CPR
 - Feel for a pulse and continue rescue breathing
 - Check for breathing for 12 seconds and then begin CPR
13. **If the two rescue breaths did not enter the infant's body you must assume that:**
- That the infant is holding its breath
 - That the infant is choking and an obstruction is in the airway
 - The infant is breathing on its own
 - The infant has expired
14. **When administering rescue breaths to an infant, according to the video, those breaths should be:**
- 2 Short Breaths
 - 2 Short Breaths each 1 seconds long
 - 3 Short Breaths each 2 seconds long
 - The video did not state the length of breaths
15. **In what area do you check for an infant's pulse?**
- At the chest area along the nipple area
 - On outside of the arm between the elbow and the shoulder
 - On the inside of the wrist
 - On the inside of the arm between the elbow and the shoulder
16. **If you find that the infant has a pulse and is breathing on its own, the infant should be**
- Given to their parents and taken to the doctor for further evaluation
 - Placed in the Recovery Position
 - Placed in the fetal position, this is the natural position for an infant
 - Basket Position
17. **The infant is not breathing but you feel a pulse, your next step to save this infants life should be to:**
- Administer two Rescue Breaths
 - Start Chest Compressions
 - Begin Rescue Breathing
 - Call 911

18. Infant rescue breathing requires how many breaths in 2 minutes?
- 1 Breath every 3 seconds, 40 breaths in 2 minutes
 - 2 Rescue Breaths every 3 seconds, 40 breaths in 2 minutes
 - 1 Breath every 2 seconds, 40 breaths in 2 minutes
 - 2 Rescue Breaths every 3 seconds, 40 breaths in 2 minutes
19. At the end of a 2 minute cycle of Rescue Breathing what should the next step be?
- Start the 2 minute cycle again
 - Stop and re-check the pulse and breathing again
 - Start chest compressions
 - Wait for EMS for a EMT or Paramedic to arrive
20. Infant Compressions consist of _____Breaths and _____Chest Compressions.
- 20 and 4
 - 30 and 2
 - 2 and 30
 - 4 and 20
21. How many cycles of infant CPR should be given within a two minute period?
- 3 cycles in a two minute period
 - 5 cycles in a two minute period
 - 10 cycles in a two minute period
 - 4 cycles in a two minute period
22. According to the video when giving compressions to an infant you should know that
- The palm of your hand should be used
 - 2 to 4 fingers should be used
 - 2 to 3 fingers should be used
 - The palms of both hand is the most effective
23. What is the depth used to administer chest compressions to an infant? There may be more than one answer.
- 1 ½ to 2inches
 - .5" to 1"
 - 1 inch to 1 ½ inches
 - ½ inch to 1 inch

24. When delivering chest compressions, how many should be completed in a 60 second time span?

- a. 160
- b. 100
- c. 110
- d. 40

25. When should you stop Administering CPR?

- a. You see signs of life in the infant
- b. Another trained person takes over
- c. A defibrillator is ready to be used
- d. Scene is unsafe
- e. You become exhausted
- f. All the above

26. When CPR is stopped, what should not be confused as a sign of life?

- a. Moaning
- b. Vomiting
- c. Shallow breathing
- d. Weak pulse

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Click the link below with keeping the suggested note taking tips in mind. Watch the video three times then answer the questions following the video. Good Luck!

https://www.youtube.com/watch?v=av8VaoL_WKI&feature=share

“HOW TO REPLACE A KITCHEN SINK” by Lowe’s Canada (5:53)



NOTES:

How to Replace a Kitchen Sink – QUESTIONS

You have just watched the video titled "HOW TO REPLACE A KITCHEN SINK" by Lowe's Canada (5:53). The following multiple choice questions are based on that video. Please select the answer that best fits the Question. Good luck!

1. What is the skill level required for replacing a kitchen sink?
 - a. Beginner
 - b. Novice
 - c. Intermediate
 - d. Expert

2. What are the two most common types of kitchen sinks?
 - a. Under Mount and Cast Iron
 - b. Slop Sink and Drop-In
 - c. Under Mount and Drop-In
 - d. Slop Sink and Under Mount

3. How are under Mount sinks installed?
 - a. Under the Faucet
 - b. Above the Water Shut Off
 - c. Beneath the Counter
 - d. Beneath the Water Shut Off

4. After watching this video you should know that under mount sinks should only be installed with.....
 - a. Under Mount Counters
 - b. Stainless Steel Counters
 - c. Formica Counters
 - d. Solid Surface and Natural Counters

5. Drop-in sinks can be installed on what type of counter surfaces
 - a. On Most Kinds of Surfaces
 - b. Stainless Steel Counters Only
 - c. Solid Surface Counters Only
 - d. Formica Counters Only

6. What are the measurements of most sinks?
 - a. 33" x 22" x 8.0" deep
 - b. 36" x 22" x 20" deep
 - c. 33" x 22" x 18" deep
 - d. 22" x 33" x 8.0" deep

7. **What is the easiest way to install a new faucet to a sink?**
 - a. While the sink is still in the cabinet
 - b. After the new sink has been installed
 - c. When the sink is removed from the cabinet
 - d. Before the counter top is in place

8. **What materials and tools are needed to plumb the drain?**
 - a. Drain pipe & fittings and a hacksaw
 - b. Fittings & hacksaw Plumbers glue & Drain pipe
 - c. Plumbers putty, Drain pipe, glue, hacksaw
 - d. Drain pipe, propane torch, hacksaw, fittings

9. **When removing the sink, where would you locate the valves to turn off the water to the sink?**
(There may be more than one answer)
 - a. Under the Sink
 - b. At the Main Valve
 - c. In the Water Closet
 - d. At the Street Shut Off

10. **What tool is needed to disconnect the water supply line from the faucet?**
 - a. A Pair of Pliers
 - b. Adjustable Wrench
 - c. Hacksaw
 - d. Monkey Wrench

11. **To remove the garbage disposal you should know the first thing to do is...**
 - a. Disconnect the p-trap
 - b. Ensure the garbage disposal is clear of waste
 - c. Turn of power
 - d. Cut the power cord

12. **You are instructed to Disconnect the p-trap using the following tool.**
 - a. Pipe Wrench
 - b. A Pair of Pliers
 - c. Adjustable Pliers
 - d. Screwdriver

13. **What two steps must be completed before removal of the garbage disposal?**
 - a. Disconnect dishwasher drain, & pipe that leads to the old unit
 - b. Remove sink and disconnect hoses
 - c. Disconnect dishwasher drain, & remove drain spout
 - d. Remove power to disposal unit

14. If you don't have the manufacturer's instructions for removing the disposal unit, what should be done?
- Call the company for instructions
 - Remove power to disposal unit
 - Check www.Lowes.com
 - Check the manufactures website
15. Once all drains and fixtures are disconnected from the old sink, what is the next step in sink removal?
- Remove the caulking from around the sink
 - Remove the metal clips that attach the sink to counter top
 - Connect the metal clips that attach the sink to counter top
 - Drain any excess water into a catch basin
16. If the sink has a bead of caulk around rim, what tool should be used to remove it?
- Hacksaw
 - Putty knife
 - Utility knife
 - Caulking scrapper
17. What tool should be used to clean the counter top once the sink has been removed?
- Steel wool
 - Caulking scrapper
 - Putty knife
 - Utility knife
18. Before you prep the new sink for installation how do you check to ensure the sink will fit in the old opening?
- Measure the opening again to check its size
 - Place the new sink in the old opening
 - Cut the counter top to give more space for the new sink
 - Did not mention in the video
19. After pulling the new sink from the opening what is the first step in prepping it for installation?
- Attach the metal clips on the underside of the sink
 - Attach the Faucet to sink
 - Connect the disposal to sink
 - Apply silicone to underside of sink

20. Where is the plumbers putty used?
- On the underside of the sink
 - Under the faucet
 - Around the drain opening on the top of the sink
 - On the underside of the sink rim
21. When placing the gaskets & flange, you are instructed to install them at which location?
- Underside of the faucet
 - Underside of the sink
 - Underside of disposal unit
 - Inside of the sink
22. Where is the silicone applied?
- Around the faucet
 - Between the disposal and sink
 - The underside of the sink rim
 - Under the sink counter
23. What is one solution to the problem of a pipe being too long for the new sink installation?
- Cut the pipe with a hacksaw
 - Did not mention in this video
 - Call a plumber
 - Take it to Lowe's
24. When you turn the water supply back on, what should you check for?
- Air leaks
 - Pressure leaks
 - Water leaks
 - Clogs

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VIDEO TESTING CONTINUED.....

Click the link below with keeping the suggested note taking tips in mind. Watch the video three times then answer the questions following the video. Good Luck!

<https://www.youtube.com/watch?v=KIYaS-Lf16s>

"How to Install a Ceramic Tile Floor" - QUESTIONS

You have just watched the video titled "How to Install a Ceramic Tile Floor" by Lowe's Canada (4:20). The following multiple choice questions are based on that video. Please select the answer that best fits the question. Good luck!

1. In which of the following rooms is the tile floor being laid?
 - a. Dining Room
 - b. Living Room
 - c. Entry Way
 - d. Family Room

 2. What is the skill level required for this project?
 - a. Beginner
 - b. Novice
 - c. Intermediate
 - d. Advanced

 3. Which of the following is not required to complete this project?
 - a. Ceramic tile
 - b. Cement backer board
 - c. Drill
 - d. Wood Screws

 4. Which of the following is not required to prepare for the project?
 - a. Tape Measure
 - b. Pencil
 - c. Chalk Line
 - d. Circular Saw

 5. Which of the following materials is not required to install the tile floor?
 - a. Tile Adhesive
 - b. Notched Trowel
 - c. Shims
 - d. Tile Spacers

 6. Which of the following is not used when grouting a tile floor?
 - a. Galvanized Screws
 - b. Rubber Float
 - c. Bucket
 - d. Sponges
-

7. What tool is used to make curved cuts in ceramic tile?
- Electric Saw
 - Nippers
 - Clippers
 - Sanding Stone
8. According to the video what is the first step when preparing to lay tile?
- Removing old flooring and base boards
 - Measuring entire room
 - Covering the floor with a tarp
 - Lay Cement board on top of existing hardwood floor
9. What is the area of the floor they decided to tile?
- 4' X 4 ½'
 - 4' X 4'
 - 5' X 5 ½'
 - 5' X 5'
10. What tools are used to secure the cement backer board (more than one answer)?
- Galvanized Screws
 - Metal Clips
 - Drill
 - Tile Adhesive
11. What measurement is used to determine how much material is needed?
- Square yardage of area to be covered
 - Area of entire building
 - Square footage of area to be covered
 - Square meters of area to be covered
12. What percentage is added to the square footage for scrap?
- 2%
 - 5%
 - 10%
 - 15%

13. When preparing the floor and high spots are found, what should be done?
- Sand the area
 - Shave area with a planer
 - Raise entire area around the high spot
 - Use floor leveler
14. When preparing the floor and low spots are found, what should be done?
- Sand the area
 - Shave area with a planer
 - Raise entire area around the high spot
 - Use floor leveler
15. What tool should be used to cut cement board?
- Utility Knife
 - Cut with a Circular Saw
 - Cut with metal snips
 - Cut with Cement Board Saw
16. To cover a seam between boards that you may come across you are instructed to use:
- Heavy-duty Duct tape
 - Tile Backer Tape
 - Cement Putty
 - Thin set tape
17. The tile pattern being installed in the video is called what?
- The jack on jack pattern
 - Herringbone pattern
 - Mosaic on mosaic pattern
 - Offset pattern
18. It recommended to use a _____ when making reference lines when centering a room.
- Pencil
 - Chalk line
 - Spray paint
 - Permanent Marker

19. What tool does the video state to use for a more accurate fit?

- a. Tile spacers
- b. A square
- c. A Level
- d. A Tape measure

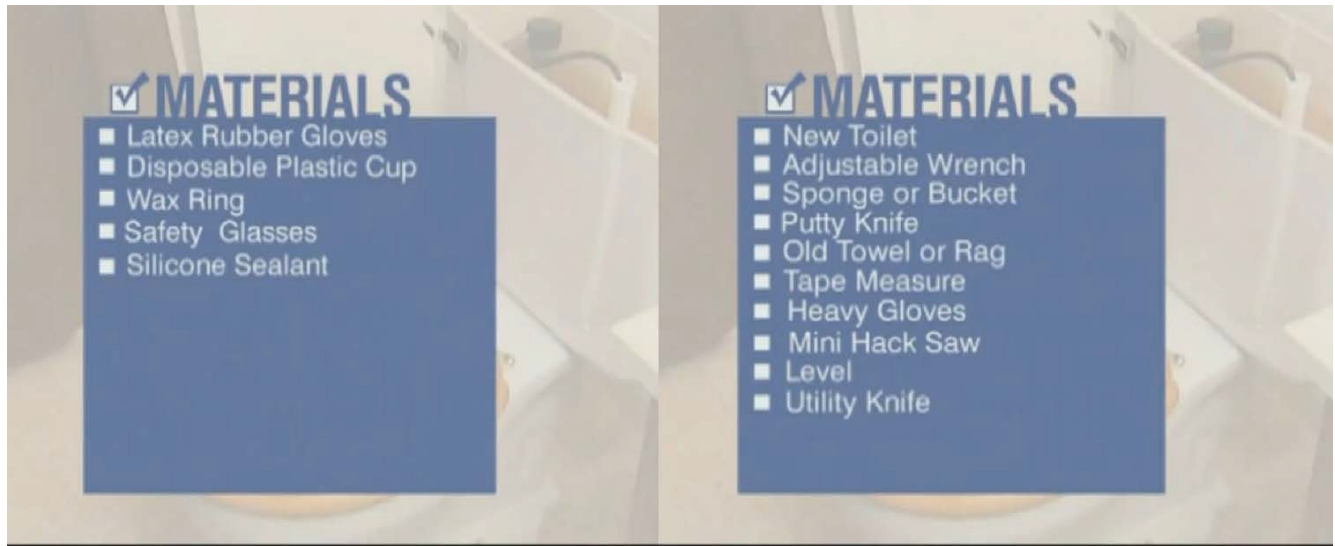
20. The video recommends that you leave how much space between the perimeter tiles and walls for expansion?

- a. $\frac{1}{4}$ "
- b. $\frac{1}{2}$ "
- c. $\frac{3}{4}$ "
- d. 1"

Click the link below with keeping the suggested note taking tips in mind. Watch the video three times then answer the questions following the video. Good Luck!

<https://www.youtube.com/watch?v= 3LIh4LQRQ>

“HOW TO: REPLACING A TOILET” by Lowe’s Canada (6:08)



NOTES:

“How to: Replacing a Toilet” – QUESTIONS

You have just watched the video titled “How to: Replacing a Toilet” by Lowes (6:08). The following multiple choice questions are based on that video. Please select the answer that best fits the Question. Good luck!

1. Which of the following tools is not needed to replace or install a new toilet?
 - a. Silicone Sealant
 - b. Mapp Gas Torch
 - c. Mini Hacksaw
 - d. Level

2. What is the first thing you need to do when considering a new toilet installation?
 - a. Take measurements
 - b. Buy a new toilet
 - c. Shut off the water
 - d. Remove old toilet

3. What are most toilets made of?
 - a. Glass
 - b. Clay
 - c. Ceramic
 - d. Marble

4. In order to buy the correct size toilet you should measure the distance between which two points?
 - a. The closet bolt to the wall
 - b. The closet bolt to baseboard
 - c. The tank to wall
 - d. The tank to baseboard

5. What should you check for before you remove the existing toilet?
 - a. Reference Number
 - b. What size is it
 - c. Leaks
 - d. Cracks

6. What is the first thing you remove from the toilet?
 - a. Toilet Seat
 - b. Tank Top Lid
 - c. Water Supply
 - d. Toilet Bowl

7. **When do you shut off the water supply to toilet?**
 - a. When you go to the hardware store to buy it
 - b. After you remove the toilet
 - c. After you remove the tank top lid
 - d. You don't need to shut it off

8. **What tool do you use to remove any excess water from the bowl?**
 - a. Garden hose
 - b. With your hands
 - c. Use a sponge or towel
 - d. Just flip the toilet upside down.

9. **What should be done if the closet bolts do not loosen and just spin?**
 - a. Use a drill
 - b. Use a hammer
 - c. Use a mini hacksaw
 - d. Just pull real hard.

10. **When turning toilet's water supply off, which way do you turn the knob?**
 - a. Pull
 - b. Left
 - c. Right
 - d. Push

11. **Why does he suggest that the tank be left on the bowl, instead of removing it?**
 - a. The bolts might be rusted
 - b. You don't want to crack the tank
 - c. There is no need to
 - d. There is no way of taking them apart

12. **What height should the water tank be filled to?**
 - a. To within ½ inch of the overflow tube
 - b. 2 ½ inches below
 - c. It doesn't really matter
 - d. There is no over flow tube

13. **What tool do you use to remove any excess water from the tank?**
 - a. A sponge and small cup
 - b. A sponge and bucket
 - c. A towel and bucket
 - d. A towel or rag

- 14. Why is a cloth or rag placed in sewer pipe drain?**
- To cover opening and keep small toilet bowl parts from falling in
 - To block water from shooting out of opening
 - To keep the area clean
 - To block sewer gases from coming back through pipe
- 15. Is rubber gasket installed on outlet of holding tank or on bowl, and why?**
- It's installed on outlet of holding tank, it makes it easier
 - If placed on the bowl installation would be impossible
 - If placed on the bowl the ceramic might crack
 - Installing on holding tank eliminates risk of cracking
- 16. Why shouldn't the bolts on the toilet bowl be over tightened?**
- The bolts might break
 - The ceramic will break
 - The ceramic tile might break
 - It will be difficult to remove
- 17. Why should the new wax ring be allowed to warm up to room temperature?**
- It will break if it is too cold
 - It's harder to work with if it is warm
 - It is easier to work with if it is warm
 - It is impossible to work with if it is too cold
- 18. Why should the wax ring be centered on the flange and not the toilet bowl?**
- If centered on the toilet bowl the toilet will not function correctly
 - It will help hold and center the closet bolts
 - It will help level the float
 - It will make it easier to reach water shut-offs
- 19. When the toilet is placed onto the flange and wax ring, why should you push down on the toilet?**
- To make sure the toilet bowl never moves again
 - To test its sturdiness
 - To seal the wax ring into place
 - To see how much weight the toilet can support
- 20. After placing washers and nuts onto closet bolts why should you tighten the bolts in an alternating pattern?**
- This applies an uneven pressure which will prevent bowl from cracking
 - This applies no pressure which will prevent the bowl from cracking
 - This applies an even pressure at the base which will help prevent cracking
 - This applies intense pressure at the base which will prevent cracking

21. How is the newly installed toilet checked for leaks?

- a. Eyeball the connections
- b. Give toilet a flush test
- c. Attempt to rock bowl from side to side to detect movement
- d. Pour a bucket of water into the toilet

22. What is the last step to do when installing a toilet bowl?

- a. Have a seat
- b. Seal base of toilet with silicone sealant
- c. Seal base of toilet with plumbers putty
- d. Tighten nuts on seat

ANSWER KEY FOR "HOW TO: REPLACING A TOILET" LOCATED ON PAGE 67.

PAIN RELIEVERS COMPREHENSION QUIZ

Directions: Read the information taken from the pain reliever bottles and answer the questions.

Medicine A – Aspirin

<p>Drug Facts Active ingredient Purpose (in each tablet) Pain reliever / Fever reducer Aspirin 325mg</p>
<p>Uses Provides temporary relief of</p> <ul style="list-style-type: none"> ▪ Headache ▪ toothache ▪ muscle pain ▪ minor pain of arthritis ▪ pain and fever of colds ▪ menstrual pain
<p>Warnings Reyes's syndrome: Children and teenagers who have or are recovering from chicken pox or flu-like symptoms should not use this product. When using this product, if changes in behavior with nausea and vomiting occur, consult a doctor because these symptoms could be an early sign of Reye's syndrome, a rare but serious illness.</p>
<p>Alcohol warning: If you consume 3 or more alcoholic drinks every day, ask your doctor whether you should take aspirin or other pain relievers/fever reducers. Aspirin may cause stomach bleeding.</p>
<p>Ask a doctor before use if you have</p> <ul style="list-style-type: none"> ▪ asthma ▪ stomach problems that persist or recur ▪ ulcers ▪ bleeding problems
<p>Stop use and ask a doctor if</p> <ul style="list-style-type: none"> ▪ pain worsens or lasts more than 10 days ▪ fever worsens or lasts more than 3 days ▪ new symptoms occur ▪ redness or swelling is present ▪ ringing in the ears or loss of hearing occurs
<p>Directions</p> <ul style="list-style-type: none"> ▪ adults: 1 to 2 tablets with water. Dosage may be repeated every 4 hours, not to exceed 12 tablets in 24 hours. ▪ children under 12: consult a doctor

Medicine B – Acetaminophen

<p>Drug Facts Active ingredient Purpose (in each tablet) Pain reliever / Fever reducer Acetaminophen 500mg</p>
<p>Uses</p> <ul style="list-style-type: none"> ▪ temporarily relieves minor aches and pains due to headache, muscular aches, backache, the common cold, toothache, menstrual cramps, minor pain of arthritis ▪ temporarily reduces fever
<p>Warnings Alcohol warning: If you consume 3 or more alcoholic drinks every day, ask your doctor whether you should take acetaminophen or other pain relievers/fever reducers. Aspirin may cause liver damage.</p>
<p>Overdose warning: Taking more than the recommend dose (overdose) may cause liver damage. In case of overdose, get medical help or contact a Poison Control Center right away. Quick medical attention is critical for adults as well as for children even if you do not notice any signs or symptoms.</p>
<p>Directions</p> <ul style="list-style-type: none"> ▪ do not take more than directed (see overdose warning) ▪ adults and children 12 years and over: take 2 gelcaps every 4 to 6 hours as needed. Do not take more than 8 gelcaps in 24 hours. ▪ Children under 12 years: do not use this adult Extra Strength product in children under 12 years of age; this will provide more than the recommended dose (overdose) of acetaminophen and may cause liver damage.

Pain Relievers Comprehension Quiz – continued

1. Which medicine relieves pain from toothaches?
 - a. Aspirin
 - b. Acetaminophen
 - c. Both Medicines
 - d. Neither Medicine

2. Which medicine should not be used by children recovering from chicken pox or flu-like symptoms?
 - a. Aspirin
 - b. Acetaminophen
 - c. Both Medicines
 - d. Neither Medicine

3. Which medicine comes in gelcaps?
 - a. Aspirin
 - b. Acetaminophen
 - c. Both Medicines
 - d. Neither Medicine

4. Which medicine comes in a 400mg single dose?
 - a. Aspirin
 - b. Acetaminophen
 - c. Both Medicines
 - d. Neither Medicine

5. Which medicine may cause stomach bleeding if taken with alcohol?
 - a. Aspirin
 - b. Acetaminophen
 - c. Both Medicines
 - d. Neither Medicine

6. What is the maximum recommended dose of medicine A, aspirin, that an adult may take in a 24 hour period?
 - a. 2 Tablets
 - b. 4 Tablets
 - c. 8 Tablets
 - d. 12 Tablets

7. Which medicine may cause liver damage if it is misused?
- Aspirin
 - Acetaminophen
 - Both Medicines
 - Neither Medicine
8. Which medicine should not be taken by people who consume more than three alcoholic drinks a day without consulting a doctor?
- Aspirin
 - Acetaminophen
 - Both Medicines
 - Neither Medicine
9. A person with asthma should take to a doctor before taking which medicine?
- Aspirin
 - Acetaminophen
 - Both Medicines
 - Neither Medicine
10. How often may an adult take 1 to 2 tablets of medicine A, the aspirin?
- Every 2 Hours
 - Every 4 Hours
 - Every 6 Hours
 - Every 24 Hours
11. What is the maximum recommended dose of medicine B, acetaminophen, that an adult may take in a 24 hour period?
- 2 Gelcaps
 - 4 Gelcaps
 - 6 Gelcaps
 - 8 Gelcaps
12. Which medicine may cause liver damage in a child less than 12 years of age?
- Aspiring
 - Acetaminophen
 - Both Medicines
 - Neither Medicine

13. Which medicine may be used to relieve minor pain from arthritis?

- a. Aspirin
- b. Acetaminophen
- c. Both Medicines
- d. Neither Medicine

14. Which medicine should a child less than 12 years of age take without speaking to a doctor?

- a. Aspirin
- b. Acetaminophen
- c. Both Medicines
- d. Neither Medicine

15. Which medicine can be used to temporarily relieve pain and fever?

- a. Aspirin
- b. Acetaminophen
- c. Both Medicines
- d. Neither Medicine

NUTRITION FACTS COMPREHENSION QUIZ

Directions: Compare the nutritional value of the four items & respond to the questions.

Item A – Vegetable Chips

NutritionFacts	
Serving Size 1oz (28g/about 14 chips)	
Servings Per Container About 8	
Amount Per Serving	
Calories 150	Calories from Fat 80
% Daily Value*	
Total Fat 9g	14%
Saturated Fat 1g	5%
Trans Fat 0g	0%
Cholesterol 0mg	0%
Sodium 150mg	6%
Total Carbohydrate 16g	5%
Dietary Fiber 3g	12%
Sugars 3g	
Protein 1g	
Vitamin A 8%	Vitamin C 8%
Calcium 2%	Iron 2%

Item B – Rice Cakes

NutritionFacts	
Serving Size 18 Mini Cakes (30g)	
Servings Per Container About 6	
Amount Per Serving	
Calories 140	Calories from Fat 45
% Daily Value*	
Total Fat 5g	8%
Saturated Fat 0.5g	4%
Trans Fat 0g	0%
Cholesterol 0mg	0%
Sodium 410mg	17%
Total Carbohydrate 21g	7%
Dietary Fiber 1g	4%
Sugars 1g	
Protein 2g	
Vitamin A 0%	Vitamin C 0%
Calcium 0%	Iron 0%

Item C – Fruit & Nut Trail Mix

NutritionFacts	
Serving Size 1/3 Cup (44g)	
Servings Per Container About 21	
Amount Per Serving	
Calories 170	Calories from Fat 40
% Daily Value*	
Total Fat 4.5g	7%
Saturated Fat 2g	11%
Trans Fat 0g	0%
Cholesterol 0mg	0%
Sodium 30mg	1%
Total Carbohydrate 31g	10%
Dietary Fiber 2g	8%
Sugars 22g	
Protein 2g	
Vitamin A 0%	Vitamin C 2%
Calcium 2%	Iron 4%

Item D – Pretzel Twists

NutritionFacts	
Serving Size 1oz (About 8 Pretzels)	
Servings Per Container About 10	
Amount Per Serving	
Calories 110	Calories from Fat 10
% Daily Value*	
Total Fat 1g	1%
Saturated Fat 0g	5%
Trans Fat 0g	0%
Cholesterol 0mg	0%
Sodium 230mg	10%
Total Carbohydrate 23g	8%
Dietary Fiber 1g	4%
Sugars 3g	
Protein 2g	
Vitamin A 0%	Vitamin C 0%
Calcium 0%	Iron 8%

Nutrition Facts Comprehension Quiz – continued

1. Which item has the **most** sugars per serving?
 - a. Vegetable Chips
 - b. Rice Cakes
 - c. Fruit & Nut Trail Mix
 - d. Pretzel Twists

2. Which item has the **fewest** calories per serving?
 - a. Vegetable Chips
 - b. Rice Cakes
 - c. Fruit & Nut Trail Mix
 - d. Pretzel Twists

3. Which item has the **most** total fat per serving?
 - a. Vegetable Chips
 - b. Rice Cakes
 - c. Fruit & Nut Trail Mix
 - d. Pretzel Twists

4. Which item contains the **most** iron?
 - a. Vegetable Chips
 - b. Rice Cakes
 - c. Fruit & Nut Trail Mix
 - d. Pretzel Twists

5. Which item contains the **least** iron?
 - a. Vegetable Chips
 - b. Rice Cakes
 - c. Fruit & Nut Trail Mix
 - d. Pretzel Twists

6. Which item has the **most** saturated fat per serving?
 - a. Vegetable Chips
 - b. Rice Cakes
 - c. Fruit & Nut Trail Mix
 - d. Pretzel Twists

7. Which item has the **most** sodium per serving?
- Vegetable Chips
 - Rice Cakes
 - Fruit & Nut Trail Mix
 - Pretzel Twists
8. Which item has the **most** Vitamin C per serving?
- Vegetable Chips
 - Rice Cakes
 - Fruit & Nut Trail Mix
 - Pretzel Twists
9. Which item has the **most** fiber per serving?
- Vegetable Chips
 - Rice Cakes
 - Fruit & Nut Trail Mix
 - Pretzel Twists
10. Which item has the greatest amount of Calories from Fat preserving?
- Vegetable Chips
 - Rice Cakes
 - Fruit & Nut Trail Mix
 - Pretzel Twists
11. How many grams of carbohydrates are in a serving of item C, the Fruit & Nut Trail Mix?
- 30
 - 23
 - 3
 - 31
12. How many calories from fat are in a serving of item B, the Rice Cakes?
- 140
 - 80
 - 40
 - 45
13. What percent of the recommended daily allowance of total fat is in a serving of item B, Rice Cakes?
- 5
 - 8
 - 0.5
 - 4

14. Which item contains 230mg of sodium in each serving?
- a. Vegetable Chips
 - b. Rice Cakes
 - c. Fruit & Nut Trail Mix
 - d. Pretzel Twists
15. How many grams of carbohydrates make up 7% of the recommended daily allowance?
- a. 16
 - b. 7
 - c. 21
 - d. 31

ANSWER KEY FOR "NUTRITION FACTS" LOCATED ON PAGE 66.

BASIC MATH QUESTIONS ANSWERS EXPLAINED

1. Fruit and Nut mix serving size: $\frac{1}{3}$ of a cup
Saturated Fat Percentage per serving = 11%
Saturated Fat percentage in 1 cup: $11\% \times 3 = \mathbf{33\%}$
2. Pretzel Twists serving size: 8 pretzels
Sodium per serving = 230 mg
Sodium in 12 pretzels = $230 \times 1.5 = \mathbf{345 \text{ mg}}$
3. Fruit and Nut Total carbohydrates per serving = 31g
Pretzel Twists carbohydrates per serving = 23g
Total Fruit and Nut Carbohydrates consumed : $3 \times 31\text{g} = 93\text{g}$
Total Pretzel Twists Carbohydrates consumed: $1.5 \times 23\text{g} = 34.5\text{g}$
Difference in carbohydrates consumed between Fruit and Nut Vs Pretzel Twists:
 $93\text{g} - 34.5\text{g} = \mathbf{58.5\text{g}}$
4. Rice Cakes serving size: 18 Mini cakes
Rice Cakes Total fat per serving percentage: 8%
Amount of Rice cakes consumed: $4 \frac{1}{2}$
Serving of Rice Cakes consumed: $18 / 4 \frac{1}{2}$ or 18 divided by $4 \frac{1}{2} = 4$
 $4 \frac{1}{2}$ Rice Cakes = $\frac{1}{4}$ of a serving.
Total Fat Per serving: $8\% / 4$ or 8% divided by 4 = $\mathbf{2\%}$
5. Vegetable Chips Serving Size: 14 Chips
Vegetable Chips Protein per serving: 1g
Rice Cakes Protein per serving: 2 g
56 Vegetable Chips divided by 14 = 4 servings of Vegetable chips, which equals 4g of protein.
 $4 \frac{1}{2}$ Rice Cakes = $\frac{1}{4}$ of a serving, which equals 2g of protein divided by 4 which equals .5g of protein.
 $4\text{g} + .5\text{g} = \mathbf{4.5\text{g}}$
6. Vegetable Chips Dietary fiber per serving: 3g
Fruit and Nut Trail Mix Dietary fiber per serving: 2g
Pretzel Twists Dietary fiber per serving: 1g
Vegetable Chips 4 servings multiplied by 3g fiber per serving = 12g
Fruit and Nut Trail Mix 3 servings multiplied by 2g fiber per serving = 6g
Pretzel Twists 1.5 servings multiplied by 1g fiber per serving = 1.5g
Fruit and Nut 6g of fiber + Pretzel Twists 1.5g fiber = 7.5g of fiber
Vegetable Chips 12g of fiber subtracted by 7.5g = $\mathbf{4.5\text{g}}$

7. Mini Rice Cakes Calories per serving = 140 calories
36 Mini Rice cakes = 2 servings

140 calories multiplied by 2 servings = **280 calories**

8. Mini Rice Cakes sodium per serving = 410mg
Fruit and Nut sodium per serving = 30mg
Pretzel twists sodium per serving = 230mg

Mini Rice Cakes sodium consumed = 2 servings of 410mg per = 820mg

Fruit and Nut Trail Mix = 3 servings of 30mg per = 90mg

Pretzel Twists = 1.5 servings multiplied by 230mg = 345mg

Fruit and Nut 90mg +Pretzel Twist 345mg = 435mg

Mini Rice Cakes 820mg subtracted by 435mg = **385mg**

9. Mini Rice Cakes total carbohydrates per serving = 21g

Fruit and Nut total carbohydrates per serving = 31g

Pretzel twists total carbohydrates per serving = 23g

Mini Rice Cakes 2 servings multiplied by 21g = 42g of carbohydrates

Fruit and Nut Trail Mix = 3 servings of 31g per = 93g

Pretzel Twists = 1.5 servings multiplied by 23g = 34.5

93g + 34.5g = 127.5g of total carbohydrates

127.5g – 42g = **85.5g**

10. Mini Rice Cakes protein per serving = 2g

Fruit and Nut protein per serving = 2g

Pretzel twists protein per serving = 2g

Mini Rice Cakes 2 servings multiplied by 2g = 4g of protein

Fruit and Nut Trail Mix = 3 servings of 2g per = 6g of protein

Pretzel Twists = 1.5 servings multiplied by 2g = 3g of protein

6g + 3g = 9g of protein in Fruit and Nut Trail Mix and Pretzel Twists combined.

9g – 4g protein = **5 more grams of protein**

ANSWER KEY

NATURAL BORN KILLERS...page 10

1. A	5. C
2. B	6. B
3. A	7. B
4. B	8. D

BASIC MATH...page 16

1. C	6. D
2. C	7. C
3. B	8. A
4. A	9. D
5. C	10. C

PAIN RELIEVERS...page 57

1. C	9. A
2. A	10. B
3. B	11. D
4. D	12. B
5. A	13. C
6. D	14. D
7. B	15. C
8. C	

NUTRITION FACTS...page 61

1. C	9. A
2. D	10. A
3. A	11. C
4. D	12. D
5. B	13. B
6. C	14. D
7. B	15. C
8. A	

HOW TO INSTALL A CERAMIC TILE FLOOR...page 45

1. C (0:35)	6. A (1:20)	11. C (2:22)	16. B (3:03)
2. D (0:27)	7. B (1:27)	12. B (2:26)	17. A (3:25)
3. D (0:50)	8. A (2:02)	13. A (2:35)	18. B (3:38)
4. D (1:00)	9. A (2:10)	14. D (2:37)	19. A (3:54)
5. C (1:10)	10. A & C (0:52)	15. A (2:56)	20. A (3:59)

HOW TO DO CPR ON AN INFANT page...26

1. D (0:15)	8. D (1:54)	15. D (2:55)	22. C (4:15)
2. A (0:15)	9. B (2:09)	16. B (3:14)	23. B & D (4:15)
3. A (0:29)	10. B (2:17)	17. C (3:25)	24. B (4:28)
4. C (0:42)	11. D (2:36)	18. A (3:30)	25. F (4:35)
5. B (1:05)	12. B (2:36)	19. B (3:50)	26. B (4:55)
6. C (1:35)	13. B (2:40)	20. C (4:07)	
7. C (1:35)	14. B (2:28)	21. B (4:07)	

HOW TO: REPLACING A TOILET page 52

1. B (1:00)	7. C (2:27)	13. B (2:40)	19. C (4:48)
2. A (1:42)	8. C (2:53)	14. D (3:40)	20. C (4:58)
3. C (2:16)	9. C (3:23)	15. A (4:03)	21. B (5:28)
4. A (1:46)	10. C (2:31)	16. B (4:16)	22. B (5:30)
5. D (2:14)	11. A (3:07)	17. C (4:30)	
6. B (2:23)	12. A (5:25)	18. B (4:37)	

HOW TO REPLACE A KITCHEN SINK page 35

1. C (0:26)	7. C (1:25)	13. A (2:45)	19. A (3:37)
2. C (0:30)	8. A (2:10)	14. D (2:55)	20. C (3:43)
3. C (0:30)	9. A & B (2:15)	15. B (3:00)	21. B (3:53)
4. D (0:35)	10. B (2:17)	16. C (3:09)	22. C (4:04)
5. A (0:40)	11. C (2:35)	17. C (3:22)	23. A (4:32)
6. A (0:53)	12. B (2:40)	18. B (3:28)	24. C (5:30)

IMPORTANT PHONE NUMBERS & WEBSITES

➤ **FDNY'S OFFICE OF RECRUITMENT & RETENTION**

TELEPHONE NUMBER: 718-999-3369

EMAIL: recruitment@fdny.nyc.gov

WEBSITE: www.nyc.gov/FDNY

SOCIAL MEDIA: Follow us on    @ JOINFDNY

➤ **NYC DEPARTMENT OF CITYWIDE ADMINISTRATIVE SERVICES (DCAS)**

TEL. 212-669-1357

WEBSITE: www.nyc.gov/DCAS

➤ **PSI EXAM SERVICES – ADMISSION LETTERS & RESCHEDULING**

TEL. 844 774-8378

E MAIL: fdnyschedule@psionline.com

WEBSITE: www.fdnypsiexams.com

FDNY AFFINITY ORGANIZATIONS

- Columbia Association – Tel. 917-337-7413 website: www.fdnycolumbia.com
- Emerald Society – Tel. 516-376-7994
- FDNY Hispanic Society – Tel. 929-384-1014 website: www.hispanicsociety.com
- FDNY Pulaski Association – Tel. 347-885-2374
- FDNY Vikings – Tel. 718-541-6442
- Firefighters for Christ FDNY – Tel. 914-736-1505
- Fire-Flag-EMS-NY – Tel. 917-885-0127
- Holy Name Society (Brooklyn, Queens) – Tel. 718-763-6300
- Holy Name Society (Bronx, Manhattan, Staten Island) – Tel. 516-775-5120
- Ner Tamid Society – Tel. 516-524-4221
- FDNY Phoenix Society – Tel: 718-213-8106
Email: fdnypheonixsociety@gmail.com
- St George Association- Tel. 516-623-1835
- Steuben Association – Tel. 718-296-2875
- Uniformed Firefighter's Association – Tel. 212-683-4832
- United Women Firefighters Association – Tel. 917-559-1351
Email: unitedwomenfirefighters@gmail.com
- Vulcan Society FDNY – Tel. 718-778-7978 website: www.vulcansocietyfdny.org
- FDNY Hellenic Society – Tel. 917-760-9968
- FDNY Women's Benevolence Association – Tel. 845-304-9400

REFERENCE MATERIAL

THE FOLLOWING DOCUMENT IS THE NOTICE OF EXAMINATIONS (NOE) FOR THE UPCOMING FIRE FIGHTER EXAM 7001. THE DOCUMENT ENTALES ANSWERS TO QUESTIONS ON:

WHAT THE JOB INVOLVES.....1
THE SALARY.....2
AGE REQUIREMENT.....2
THE EXAMINATION.....2
THE COMPUTER-BASED TEST.....2
SPECIAL ARRANGEMENTS.....3
ADMISSION NOTICE.....3
THE PHYSICAL ABILITY TEST.....3
NEW YORK CITY RESIDENCY CREDIT.....3
VETERANS PREFERENCE CREDITS.....4
LEGACY CREDITS.....4
EXAMINATION RESULTS.....4
HOW TO QUALIFY FOR APPOINTMENT.....4
CFR REQUIREMENT.....5
CHANGE OF MAILING AND/OR EMAIL ADDRESS.....5
ADDITIONAL INFORMATION.....6
PENALTY FOR MISREPRESENTATION.....6



THE CITY OF NEW YORK
 DEPARTMENT OF CITYWIDE
 ADMINISTRATIVE SERVICES
 APPLICATION UNIT
 1 CENTRE STREET, 14TH FLOOR
 NEW YORK, NY 10007

REQUIRED INFORMATION
APPLICATION

BILL DE BLASIO
 Mayor

LISETTE CAMILO
 Commissioner

NOTICE OF EXAMINATION

**FIREFIGHTER
 Exam No. 7001
 FOURTH AMENDED NOTICE - May 31, 2017**

WHEN TO APPLY: From: April 5, 2017
 To: June 9, 2017

APPLICATION FEE: \$30.00

If you file online and pay the application fee with a credit/debit/gift card, you will be charged a convenience fee of 2.49% of the payment amount. This fee is nonrefundable.

If you file at a DCAS Computer-Based Testing & Applications Center and pay with a money order, there is no convenience fee.

CANDIDATES WHO DEMONSTRATE THAT THEY ARE UNEMPLOYED OR RECEIVING PUBLIC ASSISTANCE ARE ENTITLED TO A WAIVER OF THE APPLICATION FEE.

TEST DATES: Administration of the computer-based test will begin in early September 2017. By July 31, 2017, you should receive an Admission Notice in the mail assigning you to a test date and time at a testing center in the New York City area. Subject to availability of open dates and locations, you will be able to reschedule your test date to another date within the testing period and/or to select a different testing center after you receive your Admission Notice. Instructions for rescheduling your test date, time or location will be included in the Admission Notice.

The Notice of Examination is amended to extend the end of the application period from May 31, 2017 to June 9, 2017.

Candidates who applied previously need not apply again.

This examination process is being conducted under the supervision of the United States District Court for the Eastern District of New York and is subject to that Court's approval as a result of litigation captioned *United States and The Vulcan Society, et al. v. City of New York, 07 CV 2067.*

YOU ARE RESPONSIBLE FOR READING THIS NOTICE IN ITS ENTIRETY BEFORE YOU SUBMIT YOUR APPLICATION.

WHAT THE JOB INVOLVES: Under supervision, Firefighters assist in the control and extinguishment of fires, in providing pre-hospital emergency medical care, and in the enforcement of laws, ordinances, rules and regulations regarding the prevention, control and extinguishment of fires, as well as perform Fire Safety Education activities; perform inspections and related enforcement duties, such as issuing criminal court summonses and vacate orders, to assure compliance with provisions of the Fire Prevention Code and applicable sections of the Building Code, Multiple Dwelling Code, Housing Maintenance Code, Labor Law and other laws, rules and regulations, within enforcement purviews of the New York City Fire Department; perform inspections of equipment and schedule as necessary the maintenance of various tools and equipment, including but not limited to power tools, company apparatus, Self-Contained Breathing Apparatus (S.C.B.A) and other personal safety equipment; and perform related work.

Some of the physical activities performed by Firefighters and environmental conditions experienced are: wearing protective clothing, such as bunker suit, helmet, boots and breathing apparatus; crawling, crouching and standing, often for prolonged periods, while extinguishing fires; driving fire apparatus and other Department vehicles; climbing stairs, ladders and fire escapes; raising portable ladders; using forcible entry tools, such as axes, sledge hammers, power saws and hydraulic tools; searching for victims in smoke-filled environments; carrying or dragging victims from dangerous locations; connecting, stretching and operating hose lines; locating hidden fire by feel and smell; providing medical assistance to injured or ill citizens; and providing control and mitigation of hazardous materials incidents while wearing chemical protective clothing.

(This is a brief description of what you might do in this position and does not include all the duties of this

READ CAREFULLY AND SAVE FOR FUTURE REFERENCE

position.)

THE SALARY: The current minimum salary is \$43,904 per annum. Incumbents will receive salary increments reaching \$85,292 per annum at the completion of five years of employment. All rates are subject to change. In addition, employees receive holiday, night shift and overtime pay.

HOW TO APPLY: If you believe you meet the requirements in the "How to Qualify for Appointment" section, on page four, submit an application on the Online Application System (OASys) at www.nyc.gov/examsforjobs. Follow the onscreen application instructions for electronically submitting your application and payment, and completing any required information. A unique and valid email address is required to apply online. Several internet service providers, including but not limited to Google, Yahoo!, AOL, Outlook.com, and Mail.com offer free email addresses. **All new OASys accounts require verification before a candidate can submit an application to ensure the accuracy of candidate information. Verification is instantaneous for most accounts, but some accounts may require up to 24 hours to be reviewed by a staff member and resolved. Email notification will be sent to those creating accounts that require additional documentation before they can be resolved. Please keep this information and the application period deadline in mind when creating your account.** The following methods of payment are acceptable when filing an application online: major credit card, bank card associated with a bank account, or a prepaid debit card with a credit card logo which you may purchase online or at various retail outlets.

If you are receiving or participating in certain forms of public assistance/benefits/programs, or are a veteran, you may qualify to have the application fee waived. For more information on eligibility for a fee waiver and documentation requirements, visit the Fee Waiver FAQ on the Online Application System at <https://a856-eeexams.nyc.gov/OLEE/oasys/FAQFeeWaiver.aspx>.

You may come to a Department of Citywide Administrative Services (DCAS) Computer-based Testing & Applications Centers to (1) apply for this examination online and submit a money order payable to DCAS (Exams) or (2) to submit documentation for a fee waiver.

The centers will be open Monday through Saturday from 9:00 AM to 5:00 PM:

Manhattan
2 Lafayette Street
17th Floor
New York, NY 10007

Brooklyn
210 Joralemon Street
4th Floor
Brooklyn, NY 11201

Special Circumstances Guide: This guide is located on the DCAS website at www.nyc.gov/html/dcas/downloads/pdf/misc/pdf_c_special_circumstances_guide.pdf and available at the DCAS Computer-based Testing & Applications Centers. This guide gives important information about requesting an alternate test date because of religious observance or a special test accommodation for disability, claiming Veterans' or Legacy credit, and notifying DCAS of a change in your mailing address. Follow all instructions on the Special Circumstances Guide that pertain to you when you complete your "Application for Examination."

You may be given the test before we review your qualifications. You are responsible for determining whether or not you meet the qualification requirements for this examination prior to submitting your application. If you are marked "Not Qualified", your application fee will not be refunded and you will not receive a score.

AGE REQUIREMENT: Pursuant to Section 54 of the New York Civil Service Law and Section 15-103 of the Administrative Code, you must be at least 17 ½ years of age by the end of the application period and, except as noted below, you must not have reached your 29th birthday by the beginning of the application period to be eligible to take this examination. However, you must have reached your 21st birthday to be eligible for appointment.

Exception to the Age Requirement: All persons who were engaged in military duty as defined in Section 243 of the New York State Military Law may deduct from their actual age the length of time spent in such military duty up to a maximum deduction of six years.

THE EXAMINATION: The examination will include a competitive computer-based test (CBT) and a qualifying physical ability test. You must achieve passing scores on the CBT and the physical ability test in order to be eligible for further consideration in the selection process.

THE COMPUTER-BASED TEST: The CBT is designed to assess important abilities and aptitudes that are required to successfully learn and perform the work of a Firefighter. The test will evaluate basic abilities, such as Reading, Listening, Problem Solving, Basic Arithmetic and related areas. It also will assess the way candidates approach work, interact with others, and concentrate on details.

Before you take the exam, you will have the opportunity to view online a computer-based tutorial so that you are familiar with computer-based testing and the various question types. The tutorial is available for viewing on the DCAS website at http://www.nyc.gov/html/dcas/downloads/pdf/noes/firefighter_cbt_tutorial_2017.pdf You are encouraged to view the tutorial.

Warning: You are **not** permitted to enter the test site with cellular phones, beepers, pagers, smart watches, cameras, portable media players or other electronic devices. Calculators and electronic devices with an alphabetic keyboard or with word processing or data recording abilities such as planners, organizers, etc. are **not** permitted. If you are found to be in possession of any of these devices, you may not receive your test results, your test score may be nullified, and your application fee will not be refunded.

You may not have any other person, including children, present with you while you are being processed for or taking the test, and no one may wait for you inside of the test site while you are taking the test.

Required Identification: You are required to bring one (1) form of valid (non-expired) signature and photo bearing identification to the test site. The name that was used to apply for the exam must match the first and last name on the photo ID. A list of acceptable identification documents is provided below. If you do not have an acceptable ID, you may be denied testing. Acceptable forms of identification (bring one) are as follows:

State issued driver's license, State issued identification card, US Government issued Passport, US Government issued Military Identification Card, US Government issued Alien Registration Card, IDNYC Card, Employer ID with photo, or Student ID with photo.

Leaving: You must leave the test site once you finish the test. If you leave the test site after being fingerprinted but before finishing the test, you will not be permitted to re-enter. If you disregard this instruction and re-enter the test site, you may not receive your results, your test score may be nullified, and your application fee will not be refunded.

SPECIAL ARRANGEMENTS:

Make-up Test: You may apply for a make-up test if you cannot take the test on the regular test date(s) for any of the following reasons:

- (1) compulsory attendance before a public body;
- (2) on-the-job injury or illness caused by municipal employment where you are an officer or employee of the City;
- (3) absence from the test within one week after the death of a spouse, domestic partner, parent, sibling, child or child of a domestic partner where you are an officer or employee of the City;
- (4) absence due to ordered military duty;
- (5) a clear error for which the Department of Citywide Administrative Services or the examining agency is responsible; or
- (6) a temporary disability, pregnancy-related, or child-birth-related condition preventing you from taking the test.

To request a make-up test, contact Administration, Customer and Exam Support in person or by mail at DCAS, 1 Centre Street, 14th Floor, New York, NY 10007, as soon as possible and provide documentation of the special circumstances that caused you to miss your test.

ADMISSION NOTICE: You will be assigned a test date and time at one of a number of testing centers located in the New York City area. You should receive your Admission Notice in the mail by July 31, 2017. Please be sure to read your examination schedule and instructions included in this Admission Notice very carefully. Failure to follow these instructions may delay or deny your ability to take the exam.

If you do not receive your Admission Notice by July 31, 2017, you should email fdnyschedule@psionline.com with your full name and social security number to obtain your duplicate Admission Notice. The duplicate Admission Notice will be emailed to you within 4 business days of your email being received. If you do not have an email account, you may call 1-844-774-8378 **beginning** August 1, 2017 to obtain a duplicate Admission Notice. Please be prepared to provide your full name and social security number when you call that number.

THE PHYSICAL ABILITY TEST: Candidates who pass the CBT will be scheduled to take the physical ability test prior to admission to the Fire Academy as vacancies occur. The physical ability test used will be the Candidate Physical Ability Test (CPAT), which is scored on a pass/fail basis. This test consists of a series of 8 events designed to assess the ability to perform the physical aspects of the job of a Firefighter. The test events are: stair climb, hose drag, equipment carry, ladder raise and extension, forcible entry, search, rescue, and ceiling breach and pull. A more detailed description of the physical ability test will be distributed to candidates before they are scheduled for the physical ability test, and is available for viewing on the DCAS website at: http://www.nyc.gov/html/dcas/html/work/Orientation_Video_Candidate_Physical_Ability_Test.shtml. You are encouraged to view this information.

You will be required to pay an additional fee of \$25.00 prior to taking the physical ability test. Failure to pay the additional fee on the date you are scheduled to take the physical ability test will result in disqualification from further participation in the examination. The additional fee for the physical ability test will be waived for candidates who demonstrate that they are unemployed or receiving public assistance at the time of the physical ability test. Medical evidence to allow participation in the physical ability test may be required and DCAS reserves the right to exclude from the physical ability test any candidates who are medically unfit.

NEW YORK CITY RESIDENCY CREDIT: Points equivalent to five percent of the maximum possible final exam score will be added to the final exam score of those candidates who qualify for the New York City Residency Credit. To be eligible for the residency credit, a candidate must achieve a passing score on the examination, and must produce proof, as listed below, of the candidate's residency in New York City. Candidates interested in seeking the residency credit must apply by following the instructions which will be provided on the date of the CBT. **Merely supplying a New York City address on the application form for this examination does not serve as a request for the New York City Residency Credit. Requests for the New York City Residency Credit must be received by DCAS before the eligible list is established.**

Eligibility for the New York City Residency Credit will be investigated and verified by the FDNY. Inability to produce the required verification of residency documents will result in the forfeiture of the New York City Residency Credit and an adjustment in the final score. Under no circumstances shall a Post Office (P.O. Box) address be accepted as proof of residency. **As in the case of any intentional misrepresentation of a material fact on an employment application, candidates who claim the New York City Residency Credit and who are determined to have intentionally misrepresented facts concerning New York City residency shall be terminated if they have already been appointed and/or disqualified and their names shall be removed from the eligible list, and they may be subject to criminal sanctions.**

Candidates applying for the New York City Residency Credit must provide one of the four types of documentation identified below in order to prove their residency:

- (1) An official transcript showing the candidate both (a) graduated from a New York City public high school, or a private high school in New York City approved by the New York State Education Department or a recognized accrediting organization **and** (b) resided at a New York City address while attending that high school. Official transcripts from New York City public high schools must be mailed directly from the New York City Department of Education to the FDNY Candidate Investigation Division (CID) and official transcripts from New York City private high schools must be mailed directly from the private high school to CID.
- (2) A GED certificate issued by New York State plus an official transcript showing both (a) the candidate's last school enrollment was in a New York City public high school, or a private high school in New York City approved by the New York State Education Department or a recognized accrediting organization **and** (b) the candidate resided at a New York City address while attending that high school. Official transcripts from New York City public high schools must be mailed directly from the New York City Department of Education to CID and official transcripts from New York City private high schools must be mailed directly from the private high school to CID.
- (3) Official photocopies of New York State tax returns filed by the candidate (or an individual who claimed the candidate as a dependent) in 2014 **and/or** 2015 evidencing the candidate (or an individual who claimed the candidate as a dependent) was a New York City resident for a minimum of 12 months in total during 2014 and 2015. The official photocopies must be mailed directly from the New York State Department of Taxation and Finance to CID. The FDNY will **not** accept amended returns, worksheets, self-generated returns, or any other document that is not an official photocopy of a New York State tax return.
- (4) A letter from the New York City Human Resources Administration (HRA) on HRA's official letterhead showing both (a) the candidate received cash assistance benefits from HRA for a minimum of 12 months in total during 2014 and 2015; and (b) the candidate resided at a New York City address while receiving cash assistance benefits from HRA during those same months in 2014 and/or 2015. The letter must be mailed directly from HRA to CID.

The FDNY reserves the right to request additional documents to validate or corroborate the above-listed documents submitted by the candidate. **Documents for numbers (1), (2), (3) and (4) above will only be accepted after the candidate is scheduled for Orientation/Intake and submission instructions will be provided at that time.** Candidates should be advised that the submission of documentation for the New York City Residency Credit will affect the appointment timeline. Further information on the New York City Residency Credit will be made available on the FDNY Candidate Resources page when eligibles begin processing from the established list. The FDNY Candidate Resources page can be found at <http://www1.nyc.gov/site/fdny/jobs/career-paths/candidate-resources.page>.

VETERANS' PREFERENCE CREDITS: The New York State Civil Service Law provides that additional points can be added to the final score of a candidate who is, or by the date of appointment expects to be, an honorably discharged veteran or disabled veteran of the Armed Forces of the United States who has served during a time of war, as specified in New York State law. To be eligible for Veterans' Preference Credits, a candidate must achieve a passing score on the examination. Claims for Veterans' Preference Credits cannot be made once the eligible list is established.

LEGACY CREDITS: The New York State Civil Service Law provides that additional points can be added to the final score of a candidate who is the child or sibling of (1) an individual who served the City of New York as a Firefighter, Police Officer, Emergency Medical Technician or Paramedic and was killed in the line of duty; (2) an individual who served the City of New York as a Firefighter or Police Officer and died in the performance of duty as the result of the World Trade Center attack on September 11, 2001 or as the result of participation in the rescue efforts that took place in response to the attack; or (3) an FDNY EMS member in the service of the City of New York who died in the performance of duty as the result of the World Trade Center attack on September 11, 2001 or as the result of participation in the rescue efforts that took place in response to the attack. To be eligible for Legacy Credits, a candidate must achieve a passing score on the examination. Claims for Legacy Credits cannot be made once the eligible list is established.

This is only an overview. Specific conditions and instructions for requesting Veterans' Preference Credits and/or Legacy Credits and additional information are indicated in the Special Circumstances Guide available at the DCAS Computer-based Testing & Application Centers and on the DCAS website at: http://www.nyc.gov/html/dcas/downloads/pdf/misc/pdf_c_special_circumstances_guide.pdf.

EXAMINATION RESULTS: You will be notified by mail of your test results. If you pass the CBT and the physical ability test and meet all requirements and conditions, you will be considered for appointment when your name is reached on the eligible list. Use of the exam in hiring is subject to approval by the Court in *United States v. City of New York, 07-cv2067*. The Court will decide whether to approve the exam following its administration to the applicants.

HOW TO QUALIFY FOR APPOINTMENT:

Education and Experience Requirements: By the **date of appointment**, you must have a four-year high school diploma or its educational equivalent **and**:

1. 15 college semester credits earned as a result of satisfactory completion of course work at a college or university; **or**
2. full-time U.S. military service with an honorable discharge; **or**
3. 6 months of full-time, satisfactory paid work experience.

The high school diploma or its educational equivalent must be approved by a state's Department of Education or a recognized accrediting organization. The college or university must be accredited by regional, national, professional, or specialized agencies recognized as accrediting bodies by the U.S. Secretary of Education and by the Council for Higher Education Accreditation (CHEA).

If you were educated outside the United States you must have your foreign education evaluated at your own expense to determine its equivalence to education obtained in the United States. You will receive instructions from the FDNY during the pre-employment screening process regarding the approved evaluation services that you may use for foreign education.

Driver License Requirement: You must have a valid New York State driver license at the time of appointment. If you have moving violations, license suspension(s) or an accident record, you may be disqualified. You must maintain a valid New York State Driver license for the duration of your employment.

Medical and Psychological Requirements: Medical and psychological guidelines have been established for the position of Firefighter. You will be examined to determine whether you can perform the essential functions of the position of Firefighter. Additionally, since employees are expected to continue to perform the essential functions of the position of Firefighter throughout their careers, you may be medically tested periodically throughout your career. Where appropriate, a reasonable accommodation will be provided for a person with a disability to enable him or her to take these medical and psychological examinations, and/or to perform the essential functions of the job.

Drug Screening Requirement: You must pass a drug screening in order to be appointed. Drug tests will also be administered to all probationary Firefighters as part of the medical examination prior to the completion of probation. Additionally, Firefighters will be subject to periodic random drug testing throughout their careers.

Residency Requirement: The New York Public Officers Law requires that any person employed as a Firefighter in FDNY be a resident of the City of New York or of Nassau, Westchester, Suffolk, Orange, Rockland or Putnam Counties.

English Language Requirement: You must be able to understand and be understood in English.

Proof of Identity: Under the Immigration Reform and Control Act of 1986, you must be able to prove your identity and your right to obtain employment in the United States prior to employment with the City of New York.

Citizenship Requirement: United States citizenship is required at the time of appointment.

Character and Background: Proof of good character and satisfactory background will be an absolute prerequisite to appointment. Persons who have received a dishonorable discharge from the Armed Forces are not eligible for appointment to this position. Because a New York City Firefighter is both a "public office" and a "peace officer" position, all Firefighters must be eligible for both designations. Persons convicted of certain felonies and/or misdemeanors may therefore not be eligible to be a Firefighter. In particular, a person convicted of a felony can be eligible for appointment to Firefighter only if he or she has a certificate of good conduct which specifically removes the legal bar to the public office of New York City Firefighter *and* his or her specific felony conviction does not make him or her ineligible for a peace officer position even with a certificate of good conduct.

CFR-D REQUIREMENT: You will be required to possess Certified First Responder Certification with Defibrillation (CFR-D) by the end of your probationary period. This certification must be maintained for the duration of employment.

If you do not possess a CFR-D certificate at the time of appointment, you will be required to obtain the CFR-D certificate by the end of your probationary period. FDNY provides a CFR-D training program during the probationary Firefighter training course. Upon successful completion of FDNY's CFR-D course and receipt of your CFR-D certificate, payroll deductions will commence at a rate of \$30 per pay period until the total cost of the training course is recouped by FDNY.

Probationary Firefighters who fail to obtain a CFR-D certificate by the end of their probationary period will be terminated.

Note: Candidates for CFR-D are subject to the same provisions of the State Emergency Medical Services (EMS) Code - Part 800, as candidates for EMS certification or recertification and therefore must not have been convicted of certain misdemeanors or felonies. The New York State Department of Health (DOH) will review all criminal convictions from any federal, military or state and/or local jurisdiction to determine if such convictions fall within the scope of those specified in Part 800 and if the applicant represents an unreasonable risk to property or the safety or welfare of patients or the public at large. Additional information regarding the CFR-D requirement and the submission process will be forthcoming at Orientation/Intake.

CHANGE OF MAILING AND/OR EMAIL ADDRESS: It is critical that you promptly notify DCAS of any change to your mailing address and/or email address. You may miss important information about your exam(s) or consideration for appointment, including important information that may require a response by a specified deadline, if we do not have your correct mailing and/or email address. Change of mailing and/or email address requests submitted to any place other than DCAS, such as your Agency or to the United States Postal Service will NOT update your records with DCAS. To update your mailing and/or email address with DCAS, you must submit a change request by mail or in person. Your request must include your full name, social security number, exam title(s), exam number(s), old mailing and/or email address, and your new mailing and/or email address. Your request can be mailed to DCAS Records Room, 1 Centre Street, 14th Floor, New York, NY 10007 or brought in person to the same address Monday through Friday from 9AM to 5PM.

ADDITIONAL INFORMATION:

Investigation: You will be investigated prior to appointment and must pay a \$75 fee for fingerprint screening. This fee cannot be waived. At the time of investigation and at the time of appointment, you must present originals or certified copies of all required documents and proof, including but not limited to proof of date and place of birth by transcript of record from the Bureau of Vital Statistics or other satisfactory evidence, naturalization papers if necessary, proof of any military service, and proof of meeting educational requirements. Any willful misstatement will be cause for disqualification and failure to present any documents required for investigation will be cause for discontinuance of the investigation process.

Promotion Test: A promotion examination for this title has been held for eligible City Employees. The names appearing on the promotion list will be considered first in filling vacancies.

Probationary Period: The probationary period is 18 months. As part of the probationary period, probationers will be required to successfully complete a prescribed training course. Probationers who fail to complete successfully such training course may be terminated by the agency head.

PENALTY FOR MISREPRESENTATION: Any intentional misrepresentation on the application or during the application and appointment processes shall result in disqualification, even after appointment, from the position of Firefighter and may result in criminal prosecution.

The General Examination Regulations of the Department of Citywide Administrative Services apply to this examination and are part of this Notice of Examination. They are posted and copies are available at nyc.gov/dcas and at the DCAS Computer-based Testing & Application Centers.

The City of New York is an Equal Opportunity Employer.
Title Code No. 70310; Fire Service.

For information about other exams, and your exam or list status, call 212-669-1357.
Internet: nyc.gov/dcas