

Firefighter Practice Test

Suitable for Candidates Writing these Firefighter Tests:

CEB
CPS test
FACT test
NFST test
FireTEAM test
OS test
General entry-level firefighter written exams



Firefighter Oral Comprehension Test

As in a Firefighter Cooperative Personnel Services Test (CPS test), you will be listening to a brief and fictional passage.

Listen to the firefighter oral comprehension passage only once, and listen carefully.

You are <u>not</u> permitted to record information given in the firefighter oral comprehension passage.

Firefighter Oral Comprehension Test Directions

- 1. PLAY YouTube video.
- 2. When you hear "This concludes the oral passage," answer the firefighter practice test questions based on what you heard in the firefighter oral passage.
- 3. Answers to the firefighter practice test questions are below.

YouTube Video: Oral Comprehension Passage "Booker"

https://youtu.be/dVoKXLU2f3A?si=KasbOm5Oq3IVEStj&list=UULF-4XNf0FSOegLOSj1mhWqPg

Firefighter Aptitude Test Preparation



Firefighter Oral Comprehension Passage



Firefighter Oral Comprehension Test Questions

1. How many companies were dispatched to the fire?

c. There are no vehicles on the property

d. All of the above

a. 1b. 2c. 3d. 4

2. What colour is your helmet?					
a. Red					
b. White c. Black					
d. Black and yellow					
3. How many minutes does it take for your engine to arrive on scene?					
a. 12 minutes					
b. 14 minutes					
c. 16 minutes					
d. 18 minutes					
4. Who updates your status to Dispatch?					
a. Brian Waters					
b. Justine Douglas					
c. Rick McPherson					
d. Pat Richardson					
5. On which sides of the residence were working fires reported?					
a. Side C and Side D					
b. Side C and Side B					
c. Side C and Side A					
d. None of the above					
6. For what reason do you suspect the occupants of the home to be at work?					
a. The incident occurs on a weekday					
b. The incident occurs in the morning					



7. What classification of fire was determined at the back of the residence?

a.	Class	A
_	~-	_

- b. Class B
- c. Class C
- d. Class K

8. From which side do you enter the building?

- a. Side A
- b. Side B
- c. Side C
- d. Side D

9. Where is the station located in relation to the town perimeter?

- a. South-East
- b. South-West
- c. North-East
- d. North-West

10. On what city street was the fire scene reported?

- a. Bellfarm Road
- b. Georgian Drive
- c. St. Vincent Street
- d. Duckworth Street



Firefighter Reading Comprehension Test

Firefighter Reading Comprehension Test Directions

In this firefighter reading comprehension practice test, you will read a short passage containing firerelated material just as you would in an actual firefighter reading comprehension test.

You will then answer ten reading comprehension questions related to the firefighter reading passages.

Answers to the firefighter practice test questions are below.



Reading Passage: Foam Extinguishing Agents

First invented by a Russian chemist and engineer Aleksandra Loran in 1902, foam fire extinguishers have proven to be very successful at suppressing fires quickly, preventing re-ignition, and sealing in noxious fumes. Typically used on combustible or flammable liquids, there are many types of foam applications which all work under the same general principle: smother the flames, deny oxygen to the fire, keep the fuel source cool and separate from the flame or ignition point, and seal in the fumes generated by the fire.

Different foam types possess different expansion rates depending on the need and application. The application rate, measured in gallons per minute per square foot (gpm/ft²) or litres per minute per square metre (lpm/m²), determines how much foam retardant is necessary to successfully extinguish the fire. Dry chemical foam is available in low, medium, or high expansion rates. Application rates directly affect knockdown speed. This measures the speed at which the foam spreads over the surface of the fire, thereby extinguishing it. Obviously, foam only works on flammable liquids that are horizontal in orientation.

Foam retardants are also measured on their ability to demonstrate heat resistance, that is, the capacity of the foam to withstand heat. Foam is measured for fuel resistance which is its ability to withstand saturation by the fuel, as well as vapour suppression. One of the greatest advantages of foam applications is that they can seal in the deadly vapours generated by the fire and so this becomes a category of investigation, when assessing the success of foam applications. Drain time, the length of time that foam persists after the canister is deployed, has been critical to success: the longer the drain time, the better.

Two types of foam exist in most applications: FFFP (Film Forming Fluoro-Protein) or AFFF (Aqueous Film Forming Foam). The Fluoro-Protein type of foam is animal-based, sometimes incorporating chicken feathers, or animal blood in conjunction with metallic salts. While naturally biodegradable, concern revolves around blood-borne pathogens, namely prions, which may escape into the environment during cleanup. Prions are responsible for "mad cow" disease and therefore must be taken seriously. Due to its animal content, FFFP foam often carries an unpleasant smell which makes it less desirable in home or business applications.

Often preferable, is the AFFF which is water-based, as the acronym suggests. Stored properly, a FFFP extinguisher should last approximately 10 years whereas the AFFF has a considerably longer shelf-life at 20-25 years, if only because it contains synthetic materials rather than natural ones. Currently under investigation through research and development, scientists are testing red palm oil as a new environmentally sensitive product that carries no smell. While this alternative appears optimistic, tests for its efficacy are still underway.



Firefighter Reading Comprehension Test Questions

1. _____ invented the foam extinguisher

- a. Igor Shenk
- b. Luke Minsk
- c. Aleksandra Loran
- d. Victor Romanovitch

2. The application rate of foam may be measured in

- a. litres per minute per square metre
- b. drain time multiplied by the resistance rate
- c. gallons per minute plus the knockdown speed
- d. litres per minute divided by the application rate

3. Foams that possess a longer drain time are

- a. better
- b. not as effective
- c. weakened by every minute they continue to persist
- d. more volatile than foams that have a long drain time

4. The AFFF is _____ based.

- a. blood
- b. water
- c. animal
- d. all of the above

5. ______ is being tested as a replacement for foam.

- a. red palm oil
- b. cassava beans
- c. fortified chalk
- d. synthetic "halon" blankets

6. Foam canisters work under the same general principle:

- a. make the materials too wet to burn
- b. cover the surface area with foam bubbles
- c. smother flames, deny oxygen to the fire, and seal in fumes
- d. separate the fuel source from the ignition point with a heavy foam application



7. Foam extinguishers are capable of

- a. spreading fire
- b. sealing in noxious fumes
- c. allowing the flames to burn off but not the fuel
- d. reducing the length of time that the foam persists

8. Blood-borne pathogens present a concern when they

- a. are consumed
- b. become a fuel source for a fire
- c. resist fire suppression techniques
- d. escape into the environment during cleanup

9. FFFP foam often carries an unpleasant

- a. taste
- b. smell
- c. texture
- d. none of the above

10. The foam fire extinguisher was first invented in the year

- a. 1900
- b. 1901
- c. 1902
- d. 1903



Firefighter Writing Ability Test

Firefighter Writing Ability Test Directions

In this firefighter writing ability practice test, you will answer ten questions.

Answers to the firefighter writing ability practice test questions are below.

Consider grammar, punctuation, and spelling rules to answer the questions below.

1. Which of the following sentences is most acceptable?

- a. As an added measure of safety an overhand safety knot can be used when tying any type of knot.
- b. As an added measure of safety, an overhand safety knot can be used when tying any type of knot.
- c. As an added measure of safety. An overhand safety knot can be used when tying any type of knot.
- d. As an added measure of safety, an overhead safety knot can be used when tying any type of knot.

2. Which of the following sentences is most acceptable?

- a. Most people procrastinate when it comes to test preparation. Even though the extra effort guarantees higher marks.
- b. Most people procrastinate when it comes to test preparation; Even though the extra effort guarantees higher marks.
- c. Most people procrastinate when it comes to test preparation, even though the extra effort guarantees higher marks.
- d. Most people procrastinate when it comes to test preparation, and even though the extra effort guarantees higher marks.

3. Which of the following sentences is most acceptable?

- a. Apostrophe's are confusing. I need to use James dictionary.
- b. Apostrophies are confusing. I need to use James dictionary.
- c. Apostrophes are confusing. I need to use James' dictionary.
- d. Apostrophes are confusing, I need to use James' dictionary.

Choose the pair of words that best completes the sentences below.

4. Use of the overhand safety knot	_ the danger of the running end of the rope
back through the knot and causing the	knot to fail.

- a. prevents, sliding
- b. prevents, slipping
- c. eliminates, sliding
- d. eliminates, slipping



5. She my	gracefully.
a. accept, complimentsb. except, complimentsc. excepts, complementsd. accepts, compliments	
Consider grammar, punctuation	n, and spelling rules to answer the questions below.
6. Identify the type of error	hat is found in the following sentence:
After tying all slack should	pe removed.
a. Spellingb. Grammarc. Punctuationd. None of the above	
7. Identify the type of error	hat is found in the following sentence:
I like ice cream. Especially	when it is served in a waffle cone.
a. Spellingb. Grammarc. Punctuationd. None of the above	
Choose the word that is synor	ymous with the italicized word(s) in the following sentences
8. A clove hitch is not approunloading will cause it to b a. fail b. work c. ascend d. improve	priate for life safety applications because repeated loading and eak down.
9. The figure-eight follow the	rough is used for securing objects.
a. movingb. fasteningc. looseningd. unlocking	



10. As the first person at the patient's side, you discover that she lost consciousness.

- a. Morals
- b. Awareness
- c. Painstaking
- d. Senselessness



Firefighter Math Test

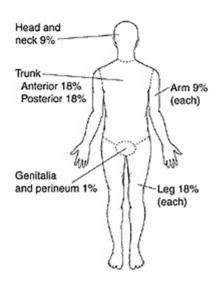
Firefighter Math Test Directions

In this firefighter math practice test, you will answer ten word problems.

As in real firefighter aptitude testing situations, the use of a calculator is <u>not</u> permitted.

Answers to the firefighter math practice test questions are below.

Answer Question 1 based on the image below.



1. An adult patient has burned his anterior trunk, both arms, and half his head and neck. Using the burn chart above, determine the total percentage of the patient's burns.

- a. 40%
- b. 41%
- c. 42%
- d. 43%

2. A Police Interceptor travels 160 km per hour. How far does it travel in 40 minutes?

- a. 106 km
- b. 107 km
- c. 108 km
- d. 109 km



3. The gas tank on a fire truck was 1/2 full at the start of a call. In responding to the call, 2/3 of that gas was used. How much of the tank of gas was used in responding to the call? a. 1/4 b. 1/3 c. 1/2 d. 2/3
4. When the pumper truck is empty it weighs 9.26 tons. It is filled with 13.09 tons of water. How much does the full pumper truck weigh?
a. 20 tons b. 22 tons c. 24 tons d. 26 tons
5. S.M.A.R.T. Fire Department dispatches two pumpers and one ladder truck to all alarms in the city's downtown core. Outside the downtown core, S.M.A.R.T. Fire Department dispatches one pumper and one ladder truck. Of 225 alarms in one week, 164 of these were in the city's downtown core. How many pumpers did S.M.A.R.T. Fire Department dispatch in one week?
a. 320 b. 328 c. 389 d. 400
6. You are supplied with 2 lengths of 40 m hose, 2 lengths of 30 m hose and 7 lengths of 15 m hose. What is the minimum number of hose lengths required to make up a length of 155 m?
a. 3 lengths of hoseb. 4 lengths of hosec. 5 lengths of hosed. 6 lengths of hose
7. To supress a ground fire at its head, firefighters are positioned every 3.66 m of the fire area. If the fire's head is 55 m across, how many firefighters are required to supress the fire?
a. 11 b. 13 c. 15 d. 17



8. An apparatus with the storage capacity of 1,500 gallons pumps 3 gallons every 20 r	ninutes.
How long can a full engine pump for before it has to refill?	

- a. 144 hours
- b. 150 hours
- c. 167 hours
- d. 186 hours
- 9. You and your partner are instructed to search the perimeter of a burning residence. The perimeter of the residence is 100 meters. You start by walking in the opposite directions. You and your partner walk at the same rate of 2 meters per minute. How long will it be before you meet your partner?
- a. 10 minutes
- b. 15 minutes
- c. 20 minutes
- d. 25 minutes
- 10. Which one of the following hose diameters is the largest?
- a. 17/20 inches
- b. 3/4 inches
- c. 3/5 inches
- d. 8/10 inches



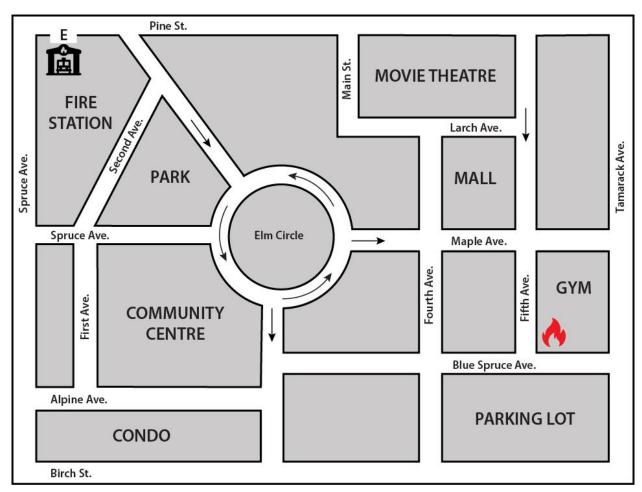
Firefighter Map Reading and Reasoning Test

Firefighter Map Reading and Reasoning Test Directions

In this practice firefighter aptitude test, you will answer five map reading questions and five firefighter reasoning test questions.

Answers to the firefighter practice test questions are below.







Answer Questions 1-5 based on the image above.

1	In	what	direction	ic the	Fire	Station	in ro	lation	to	tha	fira)
1	. 111	ı wılat	unection	is the	rne	Station	III I'C	iauon	LO I	uie	me:

- a. South-East
- b. North-East
- c. South-West
- d. North-West

2. What is the most direct route to take from the Fire Station to the fire without violating traffic laws?

- a. Turn East on Pine St., turn South-East on the one-way road to Elm Circle, turn South on the one-way road towards Birch St., turn East on Blue Spruce Ave.
- b. Turn East on Pine St., turn South-East on the one-way road to Elm Circle, turn East on Maple Ave., turn South on Fifth Ave., turn East on Blue Spruce Ave.
- c. Turn East on Pine St., turn South on Tamarack Ave., turn West on Blue Spruce Ave.
- d. Turn West on Pine St., turn South on Spruce Ave., turn East on Birch St., turn North on Fourth Ave., turn East on Blue Spruce Ave.

3. If the wind is blowing north-west, what would be in the greatest danger of catching fire?

- a. Mall
- b. Condo
- c. Movie theatre
- d. Community centre

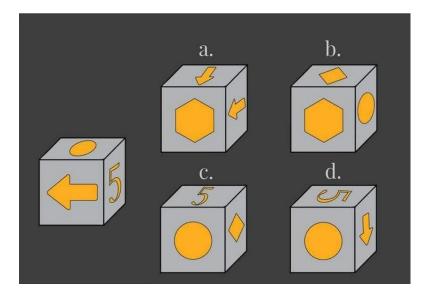
4. You are facing north on Tamarack Ave. and turn west on Pine St. The next one-way street you will reach is _____.

- a. Fifth Ave.
- b. Elm Circle
- c. Maple Ave.
- d. Second Ave.

5. Which intersection is the entrance of the Fire Station located at?

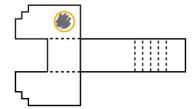
- a. Pine St. and Spruce Ave.
- b. Spruce Ave. and Birch St.
- c. Spruce Ave. and Second Ave.
- d. Blue Spruce Ave. and Fifth Ave.

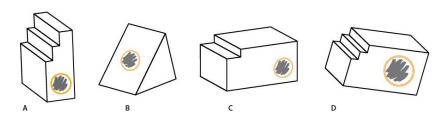




6. Which of the following cubes in the image above *cannot* represent the initial cube when it is turned two times?

- a. A
- b. B
- c. C
- d. D





7. From the image above, which shape would result if the net was folded?

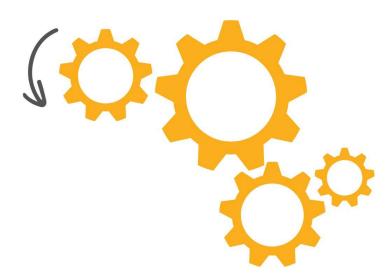
- a. A
- b. B
- c. C
- d. D



Consider the following sequence.

1, A, 3, C, 5, E, 7, G...

- 8. What number and letter should come next?
- a. 9, I
- b. 14, H
- c. 16, I
- d. 49, H
- 9. How much effort does it take for a firefighter to lift a 300 kg weight with an 8 m long lever if the fulcrum is 2 m from the weight?
- a. 50 kg
- b. 100 kg
- c. 150 kg
- d. 200 kg



- 10. If the driver gear turns counterclockwise in the above image, how many gears turn clockwise?
- a. 1
- b. 2
- c. 3
- d. 4



Firefighter Human Relations Test

Firefighter Human Relations Test Directions

In this firefighter practice test, you will read short fire-related scenarios and answer ten questions related to the scenarios.

You will be asked to identify both the **MOST** appropriate response and the **LEAST** appropriate response.

Answers to the firefighter practice test questions are below.



1. What is the MOST appropriate action to take?

- a. Obey the order
- b. Seek out the Chief
- c. Question the Captain's decision
- d. Begin working on another task

2. What is the LEAST appropriate action to take?

- a. Obey the order
- b. Seek out the Chief
- c. Question the Captain's decision
- d. Begin working on another task





SCENARIO TWO:

After a home fire, you are assigned to conduct clean up. While on task, the homeowner confronts you in an irate manner about what you are doing.

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3. What is the MOST appropriate action to take?

- a. Instruct the person to relax
- b. Refer the person to a colleague
- c. Ignore the person and continue your assigned task
- d. Listen to the person and take follow-up action as necessary

4. What is the LEAST appropriate action to take?

- a. Instruct the person to relax
- b. Refer the person to a colleague
- c. Ignore the person and continue your assigned task
- d. Listen to the person and take follow-up action as necessary



SCENARIO THREE:

After extinguishing a fire, you and your partner are assigned to overhaul the master bedroom of a lakefront property. During the task, you witness your partner pick up an engagement ring and put it in her shirt pocket.

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5. What is the MOST appropriate action to take?

- a. Inform your Captain of the actions you witnessed
- b. Discuss what you witnessed with another firefighter
- c. Ask your colleague what she is going to do with the ring
- d. Do nothing

6. What the LEAST appropriate action to take?

- a. Do nothing
- b. Inform your Captain of the actions you witnessed
- c. Discuss what you witnessed with another firefighter
- d. Ask your colleague what she is going to do with the ring



7. What is the MOST appropriate response?

- a. Tell the firefighter to talk to someone else about her issue
- b. Tell the firefighter that you will keep her brother in your thoughts and continue your workout
- c. Stop your workout and talk to the firefighter. Return to your workout once the firefighter feels heard.
- d. Tell the firefighter that you need to complete your workout and that you will listen to her while you run on the treadmill



8. What is the LEAST appropriate response?

- a. Tell the firefighter to talk to someone else about her issue
- b. Tell the firefighter that you will keep her brother in your thoughts and continue your workout
- c. Stop your workout and talk to the firefighter. Return to your workout once the firefighter feels heard.
- d. Tell the firefighter that you need to complete your workout and that you will listen to her while you run on the treadmill



9. What is the MOST appropriate response?

- a. Limit your physical activity and stay at the fire
- b. Leave the scene to get a drink of water. Then, return to the fire.
- c. Tell your Captain that you feel dizzy and may need to exit the fireground
- d. Mention how you feel to another firefighter, and try to push through the dizziness

10. What is the LEAST appropriate response?

- a. Limit your physical activity and stay at the fire
- b. Leave the scene to get a drink of water. Then, return to the fire.
- c. Tell your Captain that you feel dizzy and may need to exit the fireground
- d. Mention how you feel to another firefighter, and try to push through the dizziness



Firefighter Practice Test Answers

Oral Comprehension

1. d, 2. d, 3. b, 4. c, 5. a, 6. d, 7. a, 8. a, 9. d, 10. b

Reading Comprehension

1. c, 2. a, 3. a, 4. b, 5. a, 6. c, 7. b, 8. d, 9. b, 10. c

Writing Ability

1. b, 2. c, 3. c, 4. d, 5. d, 6. b, 7. b, 8. a, 9. b, 10. b

Math

1. b, 2. b, 3. b, 4. b, 5. c, 6. c, 7. c, 8. c, 9. d, 10. a

Map Reading and Reasoning

1. d, 2. c, 3. a, 4. a, 5. a, 6. d, 7. d, 8. a, 9. b, 10. b

Human Relations

1. a, 2. d, 3. d, 4. c, 5. c, 6. a, 7. c, 8. a, 9. c, 10. b

A score of 8/10 or higher in <u>every</u> component meets standard. Review all components that had a score of 7/10 or lower before attempting your next firefighter aptitude test.



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FireTEAM Test
National Fire Select Test (NFST test)
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Human Relations Oral Comprehension Mathematical Comprehension

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