



Systems Contractors Inc.

Construction Aptitude Assessment Test

MULTIPLICATION TEST

DIRECTIONS:

This is a simple test of your knowledge of the multiplication tables. Each problem has 5 possible answers. Choose the correct answer and blacken the circle with the letter of your choice.

This exercise is to be done mentally. You may NOT use scrap paper or mark on the test paper.

Here is an example:

$2 \times 2 =$ a. 2 b. 1 c. 4 d. 6 e. 0

The correct answer is **4**, so you would blacken the circle for the letter **c**.

There are 20 problems on this test: you will have 3 minutes to complete them. Work as fast and as accurately as possible. If you make a mistake, quickly and completely erase your error and blacken in the correct circle.

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|-----|--------------|-------|-------|-------|-------|-------|
| 1. | 4x3= | a. 9 | b. 8 | c. 10 | d. 6 | e. 12 |
| 2. | 12x5= | a. 60 | b. 50 | c. 72 | d. 62 | e. 70 |
| 3. | 5x2= | a. 12 | b. 11 | c. 5 | d. 10 | e. 7 |
| 4. | 0x6= | a. 6 | b. 0 | c. 5 | d. 10 | e. 7 |
| 5. | 4x4= | a. 12 | b. 8 | c. 16 | d. 14 | e. 20 |
| 6. | 8x7= | a. 56 | b. 49 | c. 47 | d. 63 | e. 16 |
| 7. | 9x2= | a. 11 | b. 2 | c. 18 | d. 9 | e. 8 |
| 8. | 5x3= | a. 10 | b. 15 | c. 5 | d. 3 | e. 8 |
| 9. | 6x1= | a. 1 | b. 0 | c. 6 | d. 12 | e. 7 |
| 10. | 4x5= | a. 21 | b. 18 | c. 16 | d. 22 | e. 20 |
| 11. | 7x7= | a. 49 | b. 48 | c. 56 | d. 52 | e. 46 |
| 12. | 5x6= | a. 30 | b. 27 | c. 36 | d. 40 | e. 25 |
| 13. | 8x8= | a. 72 | b. 58 | c. 64 | d. 76 | e. 65 |
| 14. | 4x6= | a. 32 | b. 26 | c. 18 | d. 24 | e. 20 |
| 15. | 9x4= | a. 34 | b. 36 | c. 26 | d. 27 | e. 37 |
| 16. | 6x3= | a. 12 | b. 19 | c. 17 | d. 36 | e. 18 |
| 17. | 4x7= | a. 21 | b. 14 | c. 28 | d. 18 | e. 26 |
| 18. | 5x8= | a. 40 | b. 42 | c. 38 | d. 35 | e. 32 |
| 19. | 8x9= | a. 64 | b. 72 | c. 58 | d. 65 | e. 56 |
| 20. | 6x7= | a. 48 | b. 32 | c. 45 | d. 42 | e. 36 |



VOCABULARY

DIRECTIONS:

This test measures your knowledge of English vocabulary specific to the trades: the ability to understand words and express ideas and thoughts.

Each test word is underlined and used in a phrase. From the five choices you are to choose the one which has the most similar meaning to the test word, and blacken the circle with the letter of the correct answer on your answer sheet.

Here is an example: He is a plumber.

One who works with:

- a) cooking utensils
- b) Xerox machines
- c) internal combustion engines
- d) broken glass
- e) water and drains

The correct answer is water and drains; therefore you would blacken the circle e.

There are 15 questions on this test: you will have 6 minutes to complete them. Work as quickly and as accurately as possible. If you make a mistake, quickly and completely erase your error and blacken the correct circle.

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1. **Size of the footing**
 - a. basement floor
 - b. enlarged foundation wall base
 - c. insulation
 - d. space between ceiling and floor
 - e. garage door opening
2. **An apprentice**
 - a. goes to school
 - b. gets paid to learn
 - c. does menial labor
 - d. learns from journeymen/women
 - e. all of the above
3. **Carpenters often do form work**
 - a. fill out paperwork
 - b. build forms for concrete
 - c. construct pea traps
 - d. make elevator openings
 - e. work overtime
4. **Blue collar workers**
 - a. office
 - b. manual
 - c. masculine
 - d. feminine
 - e. finicky
5. **A plane _____ wood.**
 - a. measures
 - b. sinks
 - c. carries
 - d. shocks
 - e. smooths
6. **Working seven 12s**
 - a. 84 hours a week
 - b. with seven other people
 - c. over seven foot high
 - d. in a 7 foot trench
 - e. for \$7 an hour
7. **Use the baker**
 - a. extension ladder
 - b. non-motorized scaffold
 - c. motorized cherry-picker
 - d. electrician's fish tape
 - e. mechanical screwdriver
8. **Call the EEO person**
 - a. Electrical Engineer's Office
 - b. Equal Employment Opportunity
 - c. English Employee's Office
 - d. Employment Entry Opportunity
 - e. Endustrial Empire Only
9. **Hang the sheetrock**
 - a. foreman
 - b. electric fan
 - c. girder
 - d. curtains
 - e. drywall
10. **Use metal studs for**
 - a. concrete forms
 - b. patio furniture
 - c. tables
 - d. floors
 - e. walls
11. **A residential building**
 - a. multi-office
 - b. factory
 - c. single family dwelling
 - d. restored
 - e. run-down
12. **Cut off the rebar**
 - a. overhanging soffit
 - b. electrical service
 - c. reinforcing rod
 - d. excess concrete
 - e. temperature control

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13. **Walk on the girder**

- a. I beam
- b. steel mesh
- c. painted line
- d. plastic mat
- e. corset

15. **Push the metal snake**

- a. panic button
- b. carpenter's tool
- c. electrician's tool
- d. ironworker's tool
- e. glazier's tool

14. **Bring the Channellocks**

- a. wrench
- b. pliers
- c. padlock
- d. dead fish
- e. screwdriver



READING COMPREHENSION

DIRECTIONS:

This test is used to assess how quickly and thoroughly you can comprehend what you read.

The test begins with a series of multiple choice questions for which you must finish the sentence by selecting one of four answers.

For example:

1. Most dogs can:
 - a. run
 - b. fly
 - c. read
 - d. talk

2. The electrician installed a switch
 - a. around the living room.
 - b. in the living room.
 - c. the living room.
 - d. on the living room.

Correct answers are A, for question 1 and B, for question 2.

Following these questions, you will be asked to read short passages and answer multiple choice questions about what you read.

There are 20 questions on this test and you will have 16 minutes to complete it.

Work as fast and accurately as possible. If you make a mistake, completely erase your error and blacken the correct circle.

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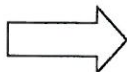
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Choose the answer which best completes each sentence and mark the corresponding letter on your answer sheet.

1. **Doors usually have ____.**
a. knobs b. triggers c. toes d. sprinklers e. all of these
2. **Screwdrivers have ____.**
a. belts b. handles c. hair d. frames e. all of these
3. **Books have ____.**
a. straws b. pencils c. pages d. teeth e. all of these
4. **Lights can have ____.**
a. bulbs b. cords c. shades d. switches e. all of these
5. **His cut finger ____.**
a. froze b. looked c. kicked d. bled e. whined
6. **Climb up the ____ to the roof.**
a. grass b. ladder c. pillage d. scale e. pin
7. **Enlarged photographs are ____.**
a. smaller b. rounder c. worse d. greyer e. bigger
8. **The electrical cord is unsafe to use because it is ____.**
a. glass b. orange c. light d. frayed e. dull
9. **The old, dry fan belt is ____ and ready to snap.**
a. roller b. brittle c. pliable d. fluid e. riled
10. **To shoot, aim the gun and pull the ____.**
a. trigger b. stock c. barrel d. bullet e. sight
11. **A ____ knife will not cut well.**
a. shiny b. sharp c. pretty d. big e. dull
12. **____ flows downhill.**
a. Trees b. Clay c. A tool d. Water e. Stones
13. **Look deep ____ yourself to find the truth.**
a. beside b. above c. near d. without e. within

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14. Enter the yard through the front _____.
 a. gate b. window c. drain d. attic e. grate
15. You will find the _____ in the kitchen.
 a. car b. refrigerator c. giraffe d. toilet e. fence
16. Attach the pages together with a _____.
 a. pen b. wrench c. staple d. book e. stable
17. Rain falls from the _____.
 a. sky b. floor c. windfall d. basement e. lesion
18. A busboy takes dirty plates _____ the kitchen.
 a. from b. buy c. to d. between e. unto
19. The shuttle bus traveled _____ the terminal and the parking lot.
 a. among b. on c. between d. at e. along
20. The clerk put the product _____ the shelf.
 a. off b. to c. with d. on e. between

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MEASURING TEST

DIRECTIONS:

This test measures your ability to identify the points marked on a 6 inch ruler. Make certain that all of your answers are complete and reduced to lowest possible terms. (Note that the last inch is divided into 32nds.)

For each question, neatly write your answer on the line provided. Writing legibly is essential on this test. Any illegible or questionable numbers will be marked as incorrect.

There are 18 questions on this test. You will have 4 minutes to complete them. Work as quickly and as accurately as possible. If you make a mistake, quickly and completely erase your error and enter the correct answer.

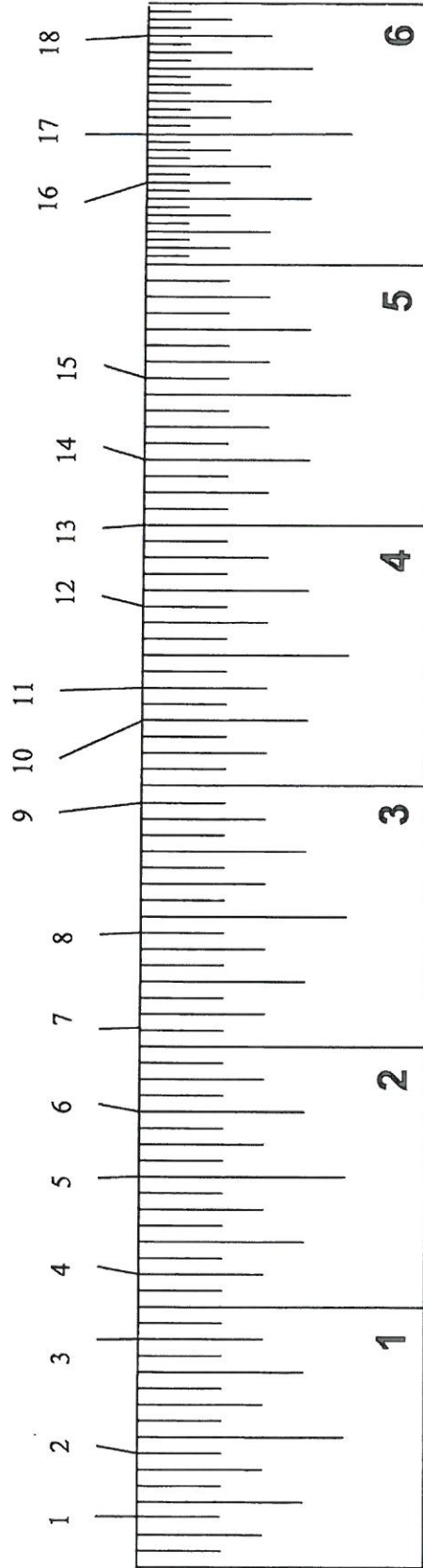
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MEASURING

On the answer sheet, identify the points marked on the 6" ruler below.
(Make sure all answers are complete and reduced to lowest possible terms.)



NOTE: The last inch is divided into 32nds.

NUMERICAL COMPUTATION

DIRECTIONS:

This test measures your ability to solve arithmetic problems using addition, subtraction, multiplication and division.

This is a multiple choice test, providing five possible answers to each question. Choose the correct answer and blacken the corresponding letter, remembering that answers must be exact and, if fractions are involved, they must be reduced to the lowest terms. Please use the scratch paper provide to complete your calculations.

Here are two sample problems.

1. $6+5 =$ a. 32 b. 10 c. 11 d. 17 e. 23

2. $3/4 - 1/4 =$ a. $2/4$ b. 2 c. 12 d. $1/2$ e. $1/4$

The correct answer to the first sample problem is 11. Therefore, you would blacken the c. The correct answer for the second problem is $1/2$, or d, as opposed to $2/4$ because fractions must be reduced to their lowest terms.

There are 20 questions on this test; you will have 9 minutes to complete them. Work as fast and as accurately as possible. If you make a mistake, quickly and completely erase your error and blacken in the correct circle.

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1. $2/5 + 1/5 =$ a. $3/10$ b. $4/5$ c. $3/5$ d. $1/10$ e. $1/5$
2. $.3 + .4 + .7 =$ a. 1.4 b. 14 c. 1.7 d. .15 e. 0
3. $.9 - .2 =$ a. .1 b. .7 c. 7.8 d. .6 e. 11
4. $1/3 + 5/6 =$ a. $4/3$ b. $4/6$ c. $6/48$ d. $7/18$ e. $1 \frac{1}{6}$
5. $1/5 + 2/7 =$ a. $17/35$ b. $3/12$ c. $2/12$ d. $3/35$ e. $3/7$
6. $5/8 - 3/8 =$ a. $8/8$ b. $2/16$ c. $1/8$ d. $3/4$ e. $1/4$
7. $34.6 \times 15 =$ a. 51.9 b. 5.19 c. 519 d. 1076 e. 4
8. $.2 + .002 + 2 =$ a. 22.2 b. 22.02 c. .22 d. 2.202 e. 2
9. $25/37 - 13/37 =$ a. $12/35$ b. $12/37$ c. $12/25$ d. $38/37$ e. $3/7$
10. $5.3 + 70.6 =$ a. 7.59 b. 75.9 c. 759 d. .759 e. 7
11. $1/4 \div 7 =$ a. $7/4$ b. $5/21$ c. $7 \frac{3}{4}$ d. $7 \frac{1}{4}$ e. $1/28$
12. $1.65 - 1.49 =$ a. 16 b. 1.06 c. .15 d. 0.16 e. .11
13. $5 - 3 \frac{1}{7} =$ a. $2 \frac{6}{7}$ b. $17/7$ c. $1 \frac{6}{7}$ d. $1 \frac{5}{7}$ e. $2 \frac{13}{14}$
14. $5 \times 4/5 =$ a. $5 \frac{4}{5}$ b. 4 c. $5 \frac{5}{20}$ d. $20 \frac{1}{5}$ e. $5 \frac{1}{5}$

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15. $.65 + 4.2 + 3.85 =$ a. 8.7 b. 8.52 c. 8.2 d. 14.55 e. 8.8
16. $2/7 \times 4/3 =$ a. 6/28 b. 3/14 c. 8/21 d. 6/21 e. 6/10
17. $8.00 - 1.35 =$ a. 6.75 b. 7.65 c. 7.35 d. 6.5 e. 6.65
18. $9/10 \div 1/5 =$ a. 4 1/2 b. 9/2 c. 5 1/2 d. 7 1/15 e. 9/50
19. $11/12 \times 1 1/2 =$ a. 1 9/24 b. 1 3/8 c. 11/36 d. 2 1/8 e. 2 3/8
20. $.70 - .25 =$ a. .55 b. .45 c. 5.5 d. 4.5 e. 5

