

## Part 1 – Word Knowledge

You are to decide which of the four possible answers has the closest meaning to the word.

1. Small
  - a. Sturdy
  - b. Round
  - c. Cheap
  - d. Little
2. Inhabit
  - a. Acquire
  - b. Live in
  - c. Forbid
  - d. Little
3. Savory
  - a. Healthful
  - b. Helpful
  - c. Tasty
  - d. Clean
4. Obliterate
  - a. Translate
  - b. Scatter
  - c. Wipe Out
  - d. Blame
5. Unison
  - a. Agreement
  - b. Firmness
  - c. Hostility
  - d. Indecision
6. Novice
  - a. Gadget
  - b. Priest
  - c. Nursemaid
  - d. Beginner
7. Rudiments
  - a. Basic Methods and Procedures
  - b. Politics
  - c. Promotion Opportunities
  - d. Minute details
8. Vague
  - a. Empty
  - b. Reverent
  - c. Conceited
  - d. Indistinct
9. Maim
  - a. Accuse
  - b. Insult
  - c. Offend
  - d. Injure
10. Cease
  - a. Start
  - b. Change
  - c. Continue
  - d. Stop
11. Turmoil
  - a. Swelling
  - b. Commotion
  - c. Grease
  - d. Anger
12. Wary
  - a. Tough
  - b. Careful
  - c. Cowardly
  - d. Foolhardy
13. Impair
  - a. Direct
  - b. Improve
  - c. Weaken
  - d. Stimulate
14. Ravage
  - a. Devastate
  - b. Scarcity
  - c. Scold
  - d. Flatter

15. Evasive

- a. Foolish
- b. Informed
- c. Revealing
- d. Secretive

16. Perpetual

- a. Confounding
- b. Imposing
- c. Sensational
- d. Enduring

17. Chide

- a. Counsel Expertly
- b. Make Young
- c. Scold
- d. Mild

18. Variable

- a. Shifting
- b. Chilling
- c. Steady
- d. Mild

**Part 2 – Arithmetic Reasoning**

Use scratch paper for problems as necessary. No calculators are allowed.

1. Two cars start together from the same place and travel along the same route. The first averages 40 miles per hour. The second averages 55 miles per hour. How many miles further along the route is the second car at the end of 5 hours?
  - a.  $55 \times 5$
  - b.  $55 - 40$
  - c.  $(55 \times 5) - (40 \times 5)$
  - d.  $55/5 - 40/5$
2. Find the total thickness of two pieces of wood that a carpenter glued together. If one is  $5/16$  inches and the other is  $7/8$  inches thick?
  - a.  $1 \frac{1}{4}$  inches
  - b.  $1 \frac{3}{16}$  inches
  - c.  $1 \frac{1}{8}$  inches
  - d.  $1 \frac{5}{8}$  inches
3. An average bath uses 8 gallons of water and an average shower uses 6 gallons. To provide baths for 60 people, how much more water will be needed for baths instead of showers.
  - a. 30 gallons
  - b. 120 gallons
  - c. 360 gallons
  - d. 480 gallons
4. A carpenter cut three 4 ft 6 in shelves from a 14 ft board. How long of a piece was left over?
  - a. 6 in
  - b. 1 ft 6 in
  - c. 2 ft
  - d. 1 ft
5. A father walks 36 miles in 12 hours. While his son covers the same distance on a bicycle at twice the father's rate of speed. At this rate how many miles would the bicycle rider travel in 9 hours.
  - a. 54 miles
  - b.  $52 \frac{1}{2}$  miles
  - c. 49 miles
  - d. 48 miles
6. A bird flies  $2/3$  of a mile per minute. How many miles per hour is it flying?
  - a. 20
  - b. 30
  - c. 40
  - d. 60
7. Out of 20 attempts, a basketball player scored 8 times. What percent of his chances did he score?
  - a. 8%
  - b. 16%
  - c. 32%
  - d. 40%
8. How many 35 passenger buses will it take to carry 140 people
  - a. 4
  - b. 3
  - c. 5
  - d. 6
9. If 12 men are needed to run 4 machines. How many men are needed to run 20?
  - a. 24
  - b. 48
  - c. 60
  - d. 80
10. A pole 24 feet high has a shadow 8 feet long. A nearby pole is 72 feet high. How long is its shadow?
  - a. 16
  - b. 24
  - c. 32
  - d. 56
11. A man is paid \$26.00 for 8 hours of work. How much should this man be paid for working 37 hours at the same hourly rate?
  - a. \$127.00
  - b. \$135.00
  - c. \$120.25
  - d. \$118.50

12. Soup ordinarily priced at 2 cans for 33 cents may be purchased in lots of one dozen for \$1.74. What is the savings per can when it is purchased in this way?
- a.  $2\frac{2}{3}$  cents      b. 2 cents      c. 8 cents      d.  $9\frac{1}{2}$  cents
13. It costs a boy \$13.50 to take a girl out for the evening. Sixty percent of this was for the theater tickets. What was the cost of each ticket?
- a. \$3.95      b. \$4.05      c. \$5.40      d. \$8.10
14. If the following series will continue in the same pattern. What is the next number in the series: 1, 10, 7, 16?
- a. 10      b. 13      c. 14      d. 25
15. Mary put in a total of  $16\frac{1}{2}$  hours babysitting during 5 days of the past week. What was her average work day?
- a. 3 hours      b. 3 hours 15 min      c. 3 hours 18 min      d. 3 hours 2 min

### Part 3 – Paragraph Comprehension

Read the paragraph. Determine which of the four answers best completes the statement or answers the question.

1. The duty of the lighthouse keeper is to keep the light burning no matter what happens, so that ships will be warned of the presence of dangerous rocks. If a shipwreck should occur near the lighthouse, even though he would like to aid in the rescue of its crew and passengers, the lighthouse keeper must...
  - a. Stay at his light
  - b. Rush to their aid
  - c. Turn out the light
  - d. Quickly sound the siren
2. In certain areas water is so scarce that every attempt is made to conserve it. For instance, on one oasis in the Sahara Desert, the amount of water necessary for each date palm is carefully determined. How much water is each tree given?
  - a. No water at all
  - b. Exactly the amount required
  - c. Water only if it is healthy
  - d. Water on alternate days
3. Twenty-five percent of all household burglaries can be attributed to unlocked windows or doors. Crime is the result of opportunity plus desire to prevent crime, it is each individual's responsibility to...
  - a. Provide the opportunity
  - b. Provide the desire
  - c. Prevent the opportunity
  - d. Prevent the desire

4. From a building designer's standpoint, three things that make a home livable are the client, the building site and the amount of money the client has to spend. According to the passage, to make a home livable...
- The prospective piece of land make little difference
  - It can be built on any piece of land
  - The design must fit the owners income and site
  - The design must fit the designer income
5. A building letter has six parts instead of five. The extra part is called the inside address. It is placed just above the salutation. The other five parts are just the same as for the friendly letter.

What is the extra part of the business letter?

- The salutation
  - A friendly letter
  - The inside address
  - The six parts instead of five
6. Use correct spelling, punctuation, capitalization, letter form and paragraphing. When you have finished, read your letter through and rewrite it if you are not satisfied with any part of it.

When should you rewrite your letter?

- When it sounds good
  - When you use correct spelling
  - If you are satisfied with all parts of it
  - If you are not satisfied with any part of it
7. Mineral rich Zaire is one of the world's most important sources of uranium. It also is a source of copper, tin, diamonds, gold, cobalt and zinc. Agricultural products include palm oil and kernels, cottonseed, rubber, cotton, lint, coffee, peanuts, sweet potatoes and yams, and cassava.

How many cotton products does Zaire produce?

- One
  - Three
  - Six
  - Two
8. The senate of the United States shall be composed of two Senators from each state chosen by the legislature thereof, for six years, and each Senator shall have one vote. Immediately after they shall be divided as equally as may be into three classes. The seats of the Senators of the first class shall be vacated at the expiration of the fourth year; and the third class at the expiration of the sixth year so that one-third may be chosen every second year.

The purpose of the three classes is to?

- Keep the Senate at an equal level
- Keep their term at six years
- So that one-third maybe chosen every second year
- Provide the Senators with one vote.





#### Part 4 – Mathematics Knowledge

Use scratch paper for problems as necessary. No calculators are allowed.



1. Which of the following is the smallest prime number greater than 200?  
a. 201                      b. 205                      c. 211                      d. 214
2. If 40% is equal to the fraction  $X/30$ , what is the value of X?  
a. 0.4                      b. 15                      c. 1,200                      d. 12
3. The expression "5 Factorial" Equals:  
a. 125                      b. 120                      c. 25                      d. 10
4. What is the result of adding  $-3X^2-5X+1$  and  $8X^2-2X-9$ ?  
a.  $5X^2-3X-10$                       b.  $-5X^2-3X-10$                       c.  $5X^2-7X-8$                       d.  $-5X^2-7X+8$
5. What is the meaning of the statement  $-30 < -5$ ?  
a. 30 is greater than 5  
b. 30 is less than minus 5  
c. Minus 30 is less than minus 5  
d. Minus 30 is greater than minus 5
6. Solve for X:  $8X-2-5X=8$   
a.  $X=13$                       b.  $X=2\frac{1}{2}$                       c.  $X=3\frac{1}{3}$                       d.  $X=7$
7. A Woman has \$500 in a bank account. Every week she writes out a check for \$50. If she doesn't make any new deposits what will her bank account have X weeks from now?  
a.  $\$500+\$50X$                       b.  $\$500-\$50X$                       c.  $\$500-X$                       d.  $\$500+\$50+X$
8. When the temperature is 20 degrees Celsius (C) what is it on the Fahrenheit (F) scale? (Use the following formula)  $\text{degrees Fahrenheit} = 9/5(C) + 32$   
a.  $93\frac{3}{5}$  degrees                      b. 78 degrees                      c.  $62\frac{3}{5}$  degrees                      d. 68 degrees
9. The perimeter of a rectangle is 38". If the length is 3" more than the width, find the width/  
a.  $17\frac{1}{2}"$                       b. 8"                      c. 11"                      d.  $14\frac{1}{2}"$
10. Find the square root of 85 correct to the nearest tenth  
a. 9.1                      b. 9.2                      c. 9.3                      d. 9.4
11. If  $5X=30$ . Then X is equal to:  
a. 150                      b. 25                      c. 6                      d. 0.6
12. What is the product of (A-5) and (A+3)?  
a.  $A^2-15$                       b.  $A^2+2A-15$                       c.  $A^2-2A-15$                       d.  $A^2-2$
13. Solve for Z:  $3Z-5+2Z+25=5Z$   
a.  $Z=0$                       b.  $Z=3$                       c.  $Z=-3$                       d.  $Z=\text{No solution}$

NAME: \_\_\_\_\_ Phone# \_\_\_\_\_

# EST Score Sheet

WK	AR	PC	MK
1 _____	1 _____	1 _____	1 _____
2 _____	2 _____	2 _____	2 _____
3 _____	3 _____	3 _____	3 _____
4 _____	4 _____	4 _____	4 _____
5 _____	5 _____	5 _____	5 _____
6 _____	6 _____	6 _____	6 _____
7 _____	7 _____	7 _____	7 _____
8 _____	8 _____	8 _____	8 _____
9 _____	9 _____	TOTAL _____ X2= 	9 _____
10 _____	10 _____		10 _____
11 _____	11 _____		11 _____
12 _____	12 _____		12 _____
13 _____	13 _____		13 _____
14 _____	14 _____		TOTAL _____ X2= 
15 _____	15 _____		
16 _____	TOTAL _____ X2= 		
17 _____			
18 _____			
TOTAL _____ X2= 			

WK + PC = VE

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(RAW)  
(RAW)  
(RAW)

VE=  
AR=  
MK=





Standard = \_\_\_\_\_ X2= \_\_\_\_\_  
Standard = \_\_\_\_\_  
Standard = \_\_\_\_\_

Go to Conversion Sheet to convert to Standard

(Add 3 Numbers together to get SUM)

SUM OF STANDARD SCORES \_\_\_\_\_

Go to Conversion Chart to get AFQT

convert to PREDICTED AFQT \_\_\_\_\_

# EST ANSWER/SCORE SHEET

**WK (6MIN)**

**AR (14MIN)**

**PC (7MIN)**

**MK (12 MIN)**

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

1     C      
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 12    C     
 13    D

**CONVERSION OF RAW TEST SCORES TO STANDARD TEST SCORES**

RAW	VE	AR	MK	RAW
0	20	26	29	0
2	20	27	31	2
4	21	30	34	4
6	23	32	37	6
8	25	35	41	8
10	27	38	44	10
12	28	41	47	12
14	30	44	50	14
16	32	47	53	16
18	33	49	57	18
20	35	52	60	20
22	37	55	63	22
24	39	58	66	24
26	40	61	68	26
28	42	63		28
30	44	66		30
32	45			32
34	47			34
36	49			36
38	50			38
40	52			40
42	54			42
44	56			44
46	57			46
48	59			48
50	61			50
52	61			52

**STD SCOF PCT**

80-120	1
121	2
122	2
123	2
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125	3
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