

ENLISTMENT SCREENING TEST (SHORT)

<u>PART</u>	<u>QUESTIONS</u>	<u>TIME</u>
1) ARITHMETIC REASONING	15	14 MIN
2) WORD KNOWLEDGE	18	6 MIN
3) PARAGRAPH COMPREHENSION	8	7 MIN
4) MATH KNOWLEDGE	13	12 MIN
TOTAL	<hr/> 54	<hr/> 39 MIN

PART I
ARITHMETIC REASONING
TIME: 14 Minutes – 15 Questions

This test has questions about arithmetic. Each question is followed by four possible answers. Decide which answer is correct, then blacken the space on your answer form which has the same number and letter as your choice. Use your scratch paper for any figuring you wish to do. Your score on this test will be based on the number of questions you answer correctly. You should try to answer every question. Do not spend too much time on any one question.

1. Two automobiles start together from the same place and travel along the same route. The first averages 40 miles per hour. The second 55 miles per hour. How many miles further along the route is the second auto at the end of 5 hours?
 - A. 55×5
 - 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 $\frac{5}{16}$ inch thick and the other is $\frac{7}{8}$ inch thick.
 - A. $1 \frac{1}{4}$
 - B. $1 \frac{3}{16}$
 - C. $1 \frac{1}{8}$
 - D. $1 \frac{5}{8}$

3. An average tub bath uses 8 gallons of water and an average shower uses 6 gallons. To provide baths for 60 men, how much more water will be needed if tubs are used instead of showers?
 - A. 30 gallons
 - B. 120 gallons
 - C. 360 gallons
 - D. 480 gallons

4. A carpenter cut three 4' 6" shelves from a 14' board. How long of a piece was left over?
 - A. 6"
 - B. 1' 6"
 - C. 2'
 - D. 1'

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. $49 \frac{1}{2}$ miles
 - D. 48 miles

6. A bird flies $\frac{2}{3}$ of a mile per minute. How many miles per hour is it flying?
 - A. 20
 - B. 30
 - C. 40
 - D. 50

PART I
ARITHMETIC REASONING
TIME: 14 Minutes – 15 Questions

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-passanger 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 it's shadow?
- A. 16 feet
 - B. 24 feet
 - C. 32 feet
 - D. 56 feet
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 wages?
- A. \$127.00
 - B. \$135.25
 - 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. $\frac{2}{3}$ cents
 - B. 2 cents
 - C. 8 cents
 - D. $9\frac{1}{2}$ cents
13. It cost a boy \$13.50 to take a girl out for the evening. Sixty percent of this was for theater tickets. What was the cost of each ticket?
- A. \$3.95
 - B. \$4.05
 - C. \$5.40
 - D. \$8.10

PART I
ARITHMETIC REASONING

TIME: 14 Minutes – 15 Questions

14. If the following series will continue in the same pattern, what is the next number in the series? 1, 10, 7, 16, __, 7
- A. 10
 - B. 13
 - C. 14
 - D. 25
15. Mary put in a total of $16\frac{1}{2}$ hours baby-sitting during 5 days of the past week. What was her average work day?
- A. 3 hours
 - B. 3 hours, 15 minutes
 - C. 3 hours, 18 minutes
 - D. 3 hours, 25 minutes

STOP

IF YOU FINISH THIS PART BEFORE THE TIME IS UP, CHECK YOUR WORK ON THIS PART ONLY

PART II
WORD KNOWLEDGE
TIME: 6 Minutes – 18 Questions

This test has questions about the meaning of words. Each has an underlined/boldface word. You are to decide which one of the four words in the choices most nearly means the same as the underlined/boldface word, then mark the space on your answer form which has the same number and letter as your choice. You should try to answer every question. Do not spend too much time on any one question.

1. **Small** most nearly means

- A. sturdy
- B. round
- C. cheap
- D. little

2. **Inhabit** most nearly means

- A. acquire
- B. live in
- C. forbid
- D. little

3. **Savory** most nearly means

- A. healthful
- B. helpful
- C. tasty
- D. clean

4. **Obliterate** most nearly means

- A. translate
- B. scatter
- C. wipe out
- D. blame

5. **Unison** most nearly means

- A. agreement
- B. firmness
- C. hostility
- D. indecision

6. **Novice** most nearly means

- A. gadget
- B. priest
- C. nursemaid
- D. beginner

7. **Rudiments** most nearly means

- A. basic methods and procedures
- B. politics
- C. promotion opportunities
- D. minute details

8. **Vague** most nearly means

- A. empty
- B. reverent
- C. conceited
- D. indistinct

9. **Maim** most nearly means

- A. accuse
- B. insult
- C. offend
- D. injure

10. **Cease** most nearly means

- A. start
- B. change
- C. continue
- D. stop

11. **Turmoil** most nearly means

- A. swelling
- B. commotion
- C. grease
- D. anger

12. **Wary** most nearly means

- A. tough
- B. careful
- C. cowardly
- D. foolhardy

13. **Impair** most nearly means

- A. direct
- B. improve
- C. weaken
- D. stimulate

14. **Ravage** most nearly means

- A. devastate
- B. scarcity
- C. scold
- D. flatter

PART II
WORD KNOWLEDGE

TIME: 6 Minutes – 18 Questions

15. **Evasive** most nearly means

- A. foolish
- B. informed
- C. revealing
- D. secretive

16. **Perpetual** most nearly means

- A. confounding
- B. imposing
- C. sensational
- D. enduring

17. **Chide** most nearly means

- A. counsel expertly
- B. make young
- C. scold
- D. season

18. **Variable** most nearly means

- A. shifting
- B. chilling
- C. steady
- D. mild

STOP

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PART III
PARAGRAPH COMPREHENSION

TIME: 7 Minutes – 8 Questions

This is a test of your ability to understand what you read. In this section, you will find one or more paragraphs of reading material followed by incomplete statements or questions. You are to read the paragraph and select one of four lettered choices which best completes the statement or answers the question. When you have selected your answer, blacken the correct numbered letter on your answer sheet.

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 they 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 tree 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,

- A. the prospective piece of land makes little difference
 - B. it can be built on any piece of land
 - C. the design must fit the owner's income and site
 - D. the design must fit the designer's income
5. A business 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 a business letter?

- A. the salutation
- B. a friendly letter
- C. the inside address
- D. the six parts instead of five

PART III
PARAGRAPH COMPREHENSION

TIME: 7 Minutes – 8 Questions

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?

- A. when it sounds good
- B. when you use correct spelling
- C. if you are satisfied with all parts of it
- D. 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 (mainly industrial), 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?

- A. one
- B. three
- C. six
- D. 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 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 three classes is to?

- A. keep the senate at an equal level
- B. keep their term at six years
- C. so that one-third may be chosen every second year
- D. provide the senators with one vote

STOP

IF YOU FINISH THIS PART BEFORE THE TIME IS UP, CHECK YOUR WORK ON THIS PART ONLY

PART IV
MATHEMATICS KNOWLEDGE
TIME: 12 Minutes – 13 Questions

This is a test of your ability to solve general mathematical problems. You are to select the correct response from the choices given. Then mark the space on your answer form which has the same number and letter as your choice. Use the scratch paper that has been given to you to do any figuring that you wish.

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. 04
 - B. 14
 - C. 1200
 - D. 12

3. The expression “5 factorial” equals
 - A. 125
 - B. 120
 - C. 25
 - D. 10

4. What is the result of subtracting $3x^7 - 5x + 1$ from $8x^7 - 2x - 9$?
 - A. $5x^7 - 3x - 10$
 - B. $-5x^7 - 3x - 10$
 - C. $5x^7 - 7x - 8$
 - D. $-5x^7 - 7x + 8$

5. What is the meaning of the statement $-30 < -5$?
 - A. 30 is greater than 5
 - B. 30 is less than minus 5
 - C. -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. $\$500 = \$50 + x$

PART IV
MATHEMATICS KNOWLEDGE

TIME: 12 Minutes – 13 Questions

8. When the temperature is 20 degrees Celsius, (C), what is it on the Fahrenheit (F) scale? Use the following formula: $F = (9/5 \times C) + 32$

- 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 x: $3x - 5 + 2x = 25 - 5x$

- A. $x = 0$
- B. $x = 3$
- C. $x = -3$
- D. x = no solution

STOP

IF YOU FINISH THIS PART BEFORE THE TIME IS UP, CHECK YOUR WORK ON THIS PART ONLY

ANSWERS

ARITHMETIC REASONING

	A	B	C	D
1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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WORD KNOWLEDGE

	A	B	C	D
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17	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

PARAGRAPH COMP

	A	B	C	D
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MATHEMATICS KNOWLEDGE

	A	B	C	D
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ANSWERS

ARITHMETIC REASONING

	A	B	C	D
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15	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

WORD KNOWLEDGE

	A	B	C	D
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PARAGRAPH COMP

	A	B	C	D
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MATHEMATICS KNOWLEDGE

	A	B	C	D
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DIRECTIONS FOR ENLISTMENT SCREENING TEST

<u>PART</u>	<u>QUESTIONS</u>	<u>TIME</u>
1) ARITHMETIC REASONING	15	14 MIN
2) WORD KNOWLEDGE	18	6 MIN
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TOTAL	54	39 MIN

GRADING INSTRUCTIONS

- STEP 1 Multiply the number of correct answers for each section by 2 to get RAW scores.
- STEP 2 Add WK RAW score and PO RAW score to get VE RAW score.
- STEP 3 Use Table 1 to convert RAW SCORES to STANDARD SCORES.
- STEP 4 **AR STANDARD + 2(VE STANDARD) + MK STANDARD = SUM OF STANDARD SCORES**
- STEP 5 Use Table 2 to convert SUM OF STANDARD SCORES to PERCENTILE
-

EXAMPLE

STEP 1	# CORRECT	X	2	=	RAW SCORE
	AR 10	X	2	=	20
	WK 15	X	2	=	30
	PC 6	X	2	=	12
	MK 11	X	2	=	22
STEP 2	WK + PC = VE 30 + 12 = 42				
STEP 3	<u>TABLE 1</u> RAW SCORE = STANDARD SCORES AR 20 = 52 VE 42 = 54 MK 22 = 65				
STEP 4	AR + 2(VE) + MK = SUM OF STANDARD 52 + 2(54) + 65 = 225				
STEP 5	<u>TABLE 2</u> 225 = 71 QT				

TABLE 1

RAW	AR	MK	VE
0	25	29	20
1	26	30	20
2	27	31	20
3	28	33	21
4	30	34	21
5	31	36	22
6	33	37	23
7	34	39	24
8	35	41	25
9	37	42	26
10	38	44	27
11	40	45	27
12	41	47	28
13	42	49	29
14	44	50	30
15	46	52	31
16	47	53	32
17	48	55	33
18	49	57	33
19	51	58	34
20	52	60	35
21	54	63	36
22	55	65	37
23	56	66	38
24	58	68	39
25	59		39
26	61		40
27	62		42
28	63		43
29	65		44
30	66		45
31			45
32			46
33			47
34			48
35			49
36			50
37			50
38			51
39			52
40			53
41			54
42			55
43			56
44			56
45			57
46			58
47			59
48			60
49			60
50			61

TABLE 2

STD Score	QT	STD Score	QT
80 – 120	1	205	51
121 – 124	2	206	52
125 – 127	3	207 – 208	53
128 – 131	4	209	54
132 – 134	5	210	55
135 – 136	6	211	56
137 – 139	7	212	57
140 – 142	8	213	58
143 – 144	9	214	59
145 – 146	10	215	60
147 – 148	11	216	61
149 – 150	12	217	62
151 – 153	13	218	63
154	14	219	64
155 – 156	15	220	65
157 – 158	16	221	66
159 – 160	17	222	67
161 – 162	18	223	68
163 – 164	19	224	69
165	20	225	70
166 – 167	21	226	71
168 – 169	22	227	72
170 – 171	23	228	73
172	24	229	74
173 – 174	25	230	75
175	26	231	76
176 – 177	27	232	77
178	28	233	78
179 – 180	29	234	79
181	30	235	80
182 – 183	31	236	81
184	32	237	82
185	33	238	83
186	34	239	84
187 – 188	35	240	85
189	36	241	86
190	37	242	87
191	38	243	88
192	39	244	89
193	40	245	90
194	41	246	91
195 – 196	42	247	92
197	43	248	93
198	44	249	94
199	45	250	95
200	46	251	96
201	47	252	97
202	48	253	98
203	49	254 – 320	99
204	50		