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ASVAB Section two : Arithmetic Reasoning

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QUESTION 1

A librarian wants to shelve 532 books.

If 4 books fit on a 1-foot length of shelving, how many feet of shelving does she need to shelve all the books?

A. 13

B. 45

C. 33

D. 133

Correct Answer: D

QUESTION 2

William is from England and is visiting the United States. On his trip he visits Texas and notices that it is very hot. He looks at a thermometer and it reads 95 degrees Fahrenheit.

William wants to know what this converts to in Celsius? Assume C = (F- 32) / 1.8

A. 30 degrees C

B. 35 degrees C

C. 40 degrees C

D. 45 degrees C

E. 50 degrees C

Correct Answer: B

QUESTION 3

A three-digit code must be used to access a computer file. The first digit must be an A or a B. The second digit must be a number between 0 and 9. The final digit is a single letter from the alphabet from A to Z.

How many possible access codes can there be?

B. 468

C. 520

D. 640

Correct Answer: C

QUESTION 4

School enrollments have fluctuated quite a bit in Oregon this year. The state department of education predicted there would be 300,000 students enrolled state-wide. The enrollment ended up being 375,000.

How much of a percentage increase over the projected amount is this?

A. A 10% increase in the projected amount.

B. A 20% increase in the projected amount.

C. A 25% increase in the projected amount.

D. A 15% increase in the projected amount.

Correct Answer: C

QUESTION 5

Temperature readings on a certain day ranged from a low of -4? to a high of 16?. What was the average temperature for the day?

A. 10?

B. 6?

C. 12?

D. 8?

Correct Answer: B

QUESTION 6

A rectangle is one inch longer than it is wide. Its diameter is five inches. What\\'s the width of the rectangle?

A. 2 inches

B. 3 inches

C. 4 inches

D. 5 inches

Correct Answer: B

QUESTION 7

If ab = 10, and a2 + b2 = 30, solve for y in the equation, y = (a + b)2.

A. 40

B. 45

C. 50

D. 55

Correct Answer: C

QUESTION 8

Darlene bought 12 boxes of cookies for $48.00. What was the cost of each box of cookies?

A. $4.00

B. $0.48

C. $0.40

D. $4.80

Correct Answer: A

QUESTION 9

If you invest $10,000 at an annual rate of 7%, how much interest will you earn after one year?

A. $7

B. $700

C. $10,700

D. $70

Correct Answer: B

QUESTION 10

A technology reseller purchasing agent procured 20 mid-brand DVD players for the listed wholesale price of $80 each, but receives a 25% discount because he is an established customer and friend of the wholesale dealer. His store then sells these DVD players at a 20% markup above the original wholesale price.

What is the store\\'s profit margin on each DVD player?

A. $16

B. $72

C. $20

D. $36

Correct Answer: D

QUESTION 11

A corporate purchaser paid $17.16 for an item that had recently been increased in price by the wholesaler by four percent.

What was the price of the item before the increase?

A. $17.00

B. $17.12

C. $16.50

D. $16.47

Correct Answer: C

QUESTION 12

The sum of two numbers is 84. One number is 6 more than the other. What is the smaller of the two numbers?

A. 32

B. 39

C. 33

D. 35

Correct Answer: B

QUESTION 13

Pete and his partner Mike made a huge profit in their software business together this year and have decided to use $20,000 of the profit for a Christmas donation to their favorite charities. Using the investment ratio each of them contributed to starting the business, Pete invested the most with 4:1 ratio to Mike.

How much money will Mike get to donate to his charity?

A. $5,000

B. $4,000

C. $3,000

D. $16,000

Correct Answer: B

QUESTION 14

Mark received an hourly wage of $9.25. His boss gave him a 4% raise. How much does Mark make per hour now?

A. $9.29

B. $9.62

C. $9.89

D. $9.99

Correct Answer: B

QUESTION 15

Darla spent $120.37 on groceries in January, $108.45 in February, and $114.86 in March. What was the average monthly cost of Darla\\'s groceries?

A. $343.68

B. $110.45

C. $114.86

D. $114.56

Correct Answer: D

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