



ASVAB-SECTION-6^{Q&As}

ASVAB Section Six : Mathematics Knowledge

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QUESTION 1

Convert 24% to a fraction.

- A. $\frac{6}{25}$
- B. $\frac{1}{25}$
- C. $\frac{6}{24}$
- D. $\frac{1}{24}$

Correct Answer: A

Explanation:

$24\% = \frac{24}{100}$. This fraction can be further reduced to $\frac{6}{25}$.

QUESTION 2

$(x + 4)(x + 2) = \underline{\hspace{2cm}}$.

- A. $x^2 + 6x + 6$
- B. $x^2 + 8x + 8$
- C. $x^2 + 8x + 6$
- D. $x^2 + 6x + 8$

Correct Answer: D

Explanation:

Multiply the first variable in the first set of parentheses with the first variable in the second set of parentheses ($x \times x = x^2$).

Next, multiply the first variable in the first set of parentheses with the second number in the second set of parentheses ($x \times 2 = 2x$). So far, the results are $x^2 + 2x$.

Now, multiply the second number in the first set of parentheses to the first variable in the second set of parentheses ($4 \times x = 4x$).

Next, multiply the second variable in the first set of parentheses to the second number in the second set of parentheses ($4 \times 2 = 8$).

The solution is $x^2 + 2x + 4x + 8$. Combining the like terms results in $x^2 + 6x + 8$.

**QUESTION 3**

$12(82 - 3) - (2 \times 81) = \underline{\hspace{2cm}}$.

- A. 382
- B. 786
- C. 851
- D. 1,137

Correct Answer: B

Explanation:

Perform the operations in the parentheses first: $(12 \times 79) - 162 = 948 - 162 = 786$.

QUESTION 4

The reciprocal of 1?6 is .

- A. 1
- B. 3
- C. 6
- D. 1?3

Correct Answer: C

Explanation:

A reciprocal is the number by which a number can be multiplied to produce 1.

So the reciprocal of 1?6 is 6 because $1?6 \times 6 = 1$.

QUESTION 5

?-9 is an example of a(an) .

- A. real number
- B. imaginary number
- C. irrational number
- D. sloping number

Correct Answer: B

Explanation:



The square root of a negative number doesn't exist as far as real numbers are concerned. In mathematics, this is called an imaginary number.

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