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ASVAB Section Six : Mathematics Knowledge

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QUESTION 1

Which of the following fractions is the largest?

- A. $\frac{2}{5}$
- B. $\frac{3}{8}$
- C. $\frac{7}{10}$
- D. $\frac{13}{16}$

Correct Answer: D

Explanation:

Find a common denominator for the fractions. In this case, 80 work for all the fractions.

Convert all the fractions: $\frac{2}{5} = \frac{32}{80}$; $\frac{3}{8} = \frac{30}{80}$; $\frac{7}{10} = \frac{56}{80}$; and $\frac{13}{16} = \frac{65}{80}$.

Comparing the fractions, you can see that $\frac{13}{16}$ ($\frac{65}{80}$) is the largest fraction.

QUESTION 2

$(x^3)^2 =$ _____.

- A. x^5
- B. x^6
- C. x^9
- D. $2x^3$

Correct Answer: B

Explanation: $(x^3)^2$ is the same as $(x^3)(x^3)$. To multiply exponents with the same base, keep the base and add the exponents: $(x^3)(x^3) = x^6$.

QUESTION 3

Factor $9x^3 + 18x^2 - x - 2$.

- A. $(9x^2 - 1)(x + 2)$
- B. $(9x^2 + 1)(x - 2)$
- C. $(9x^2 + 2)(x - 1)$ D. $(9x^2 - 2)(x + 1)$

Correct Answer: C



Explanation:

$$9x^3 + 18x^2 - x - 2 = 9x^2(x+2) - 1(x+2) = (9x^2 - 1)(x+2)$$

QUESTION 4

What is 4 cubed?

- A. 12
- B. 81
- C. 128
- D. 64

Correct Answer: D

Explanation:

$$4 \text{ cubed is } 4 \times 4 \times 4 = 64$$

QUESTION 5

The cube of 8 is _____.

- A. 24
- B. 64
- C. 512
- D. 80

Correct Answer: C

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