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Test Prep PRAXIS-Mathematics-Section

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QUESTION NO: 1

If $5x + 7 = 8x - 2$, then

- A. $x = 5$
- B. $x = 3$
- C. $x = 4$
- D. $x = 2$
- E. $x = 1$

ANSWER: B**Explanation:**

Solve the equation for x by subtracting $5x$ from both sides, adding 2 to both sides, and then dividing both sides by 3.

QUESTION NO: 2

If Ted runs at 8 miles an hour, which computation would you use to determine how far Ted runs in 15 minutes?

- A. 8×15
- B. 8×25
- C. 8×0.15
- D. 8×0.25
- E. 8×2.5

ANSWER: D**Explanation:**

Fifteen minutes is a quarter-hour, which is equivalent to the decimal 0.25.

QUESTION NO: 3

If the value of x is between 0.00776 and 0.0506, which of the following numbers could be x ?

- A. 0.008

- B. 0.890
- C. 0.0008
- D. 0.8009
- E. 0.809

ANSWER: A

Explanation:

When solving this sort of problem, it may help to write the two given numbers so that one is under the other and the decimal points are aligned.

QUESTION NO: 4

Solve and simplify: $2/3 \times 3/5 \times 5/10 \times 6/8 =$

- A. 0.2
- B. 0.5
- C. 0.15
- D. 0.25
- E. 0.333333333

ANSWER: C

Explanation:

Fractions are multiplied by multiplying numerators by numerators and denominators by denominators. Some of the fractions in this problem can be simplified.

QUESTION NO: 5

$8.5 \times 9.07 =$

- A. 77.95
- B. 770.95
- C. 77.095
- D. 777.095
- E. 7.095

ANSWER: C**Explanation:**

Remember that since the terms of the problem have three units to the right of the decimal point, the answer will as well.

QUESTION NO: 6

Find the slope: $4x - 5y = 20$

- A. $5/4$
- B. $4/5$
- C. $-4/5$
- D. $-5/4$
- E. -4

ANSWER: B**Explanation:**

The equation form for slope is $y = mx + b$, in which m is slope.

QUESTION NO: 7

On a real number line, $x = -4$ and $y = 7$. What is the length of the line XY?

- A. 11
- B. 3
- C. - 11
- D. 7
- E. 10

ANSWER: A**Explanation:**

Measure the length of the line by adding the respective distances of each value from zero.

QUESTION NO: 8

$3/27 =$

- A. $1/9$
- B. $1/10$
- C. $1/2$
- D. $3/18$
- E. $2/7$

ANSWER: A

Explanation:

Divide numerator and denominator by 3.

QUESTION NO: 9

If Dave drives at a steady speed of 50 miles per hour, how long will it take him to drive 10 miles?

- A. 20 minutes
- B. 10 minutes
- C. 15 minutes
- D. 30 minutes
- E. 12 minutes

ANSWER: E

Explanation:

Since there are 60 minutes in an hour, this problem can be solved with the following equation: $50/60 = 10/x$

QUESTION NO: 10

Randy got the following test scores in science class: 76, 98, 78, 80, and 54. What is the median test score?

- A. 77
- B. 98
- C. 54
- D. 84

E. 78

ANSWER: E

Explanation:

The median is the piece of data that is in the middle position when the entire set is placed in order from least to greatest.