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Test Prep PRAXIS-Mathematics-Section

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QUESTION NO: 1

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: 2

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: 3

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: 4

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: 5

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

A. 8 x 15

B. 8 x 25

C. 8 x 0.15

D. 8 x 0.25

E. 8 x 2.5

ANSWER: D

Explanation:

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

QUESTION NO: 6

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: 7

Solve and simplify: 2/3 x 3/5 x 5/10 x 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: 8

8.5 x 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: 9

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.

QUESTION NO: 10

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.