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PRAXIS

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Mathematics Section

Pre-Professional Skills Test

(PPST) - Mathematics

Section

QUESTION: 1

If $x = -5$, then $|x - 7| =$

- A. -12
- B. 2
- C. 10
- D. -2
- E. 12

Answer(s): E

Explanation:

Remember that absolute value is the distance from zero on a real number line, and therefore cannot be zero.

QUESTION: 2

Solve and simplify: $\frac{2}{3} \times \frac{3}{5} \times \frac{5}{10} \times \frac{6}{8} =$

- A. 0.2
- B. 0.5
- C. 0.15
- D. 0.25
- E. 0.33333333

Answer(s): 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: 3

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(s): E

Explanation:

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

QUESTION: 4

John will be x in 7 years. How old was he last year?

- A. $x + 7$
- B. $1 - x - 7$
- C. $x + 8$
- D. $x - 8$
- E. $7x$

Answer(s): D

Explanation:

The target age can be found by subtracting first seven and then one year from x .

QUESTION: 5

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

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

Answer(s): B

Explanation:

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

QUESTION: 6

Rex is four times as old as Ted. If the sum of their ages is 30, how old is Ted?

- A. 5
- B. 8
- C. 10
- D. 6
- E. 12

Answer(s): D

Explanation:

The ratio of Rex's age to Ted's age is 4:1; the sum of their ages can be divided by the total number of units in this ratio, 5. This indicates that Rex is 24 and Ted is 6.

QUESTION: 7

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

- A. 11
- B. 3