Test Prep

PRAXIS-Mathematics-Section

Pre-Professional Skills Test (PPST) - Mathematics Section

QUESTION & ANSWERS

Exam A

QUESTION 1
If x = -5, then |x - 7| =

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

Correct Answer: E

Explanation

Explanation/Reference:
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: 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

Correct Answer: C

Explanation

Explanation/Reference:
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

Correct Answer: E

Explanation

Explanation/Reference:
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

Correct Answer: D

Explanation

Explanation/Reference:
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

Correct Answer: B

Explanation

Explanation/Reference:
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

Correct Answer: D

Explanation

Explanation/Reference:
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
C. - 11
D. 7

E. 10

Correct Answer: A

Explanation

Explanation/Reference:
Explanation: Measure the length of the line by adding the respective distances of each value from zero.

QUESTION 8
Reggie has enough flour to last for 40 days. If he increases his use of flour by 25%, however, how many days' worth of flour will he have?

A. 30 days
B. 28 days
C. 32 days
D. 48 days
E. 36 days

Correct Answer: C

Explanation

Explanation/Reference:
Explanation: Reggie will be using flour at 5/4 the normal rate. Since the amount of flour used is inversely proportional to the amount of time it takes to go through the flour, the duration can be found by multiplying 40 by the inverse of 5/4, or 4/5.

QUESTION 9
If $x = 3$ and $y = -1$, then $3x2 + 2xy - 5 = ?$

A. 18
B. 24
C. 12
D. 14
E. 16

Correct Answer: E

Explanation

Explanation/Reference:
Explanation: Substitute the given values into the equation, and then remember to observe the order of operations.

QUESTION 10
$8.5 \times 9.07 =$

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

Correct Answer: C