

K-12

TACHS
Test for Admission into Catholic High Schools (TACHS)

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Question: 1

Amy is saving up to buy an iPod Touch that costs \$200. She has saved \$170. Her neighbors will pay her \$5 to babysit for an hour once a week. What is the fewest number of weeks Amy will need to babysit to earn enough money to buy the iPod?

- A. 4
- B. 6
- C. 30
- D. 40

Answer: B

Explanation:

Amy needs \$200 and has \$170. $\$200 - \$170 = \$30$. At \$5 a week, $30 \div 5 = 6$ weeks. In 4 (A) weeks, she would only earn another \$20 and still be \$10 short. In 30 (C) weeks, $\$5 \times 30 = \150 , more than she needs because $\$170 + \$150 = \$320$. In 40 (D) weeks, she would earn $\$5 \times 40 = \200 —the price of the iPod—BUT she has *already* saved \$170, so she does not need that total amount.

Question: 2

If $48 \div y = 6$, what is the value of y ?

- a. 8
- b. 9
- c. 7
- d. 6

Answer: A

Explanation:

In the multiplication tables, $6 \times 8 = 48$. If 48 divided by y equals 6, then 6 times y equals 48, so divide 48 by 6 and get 8. Nine (B) $\times 6 = 54$. Seven (C) $\times 6 = 42$. And, 6 (D) $\times 6 = 36$.

Question: 3

Simplify the following expression: $3(2x + 1) + 2(x - 1)$. Which is the correct answer?

- a. $6x + 1x$
- b. $3 + 4x$
- c. $5 + 2x^2$
- d. $8x + 1$

Answer: D

Explanation:

To simplify the expression, first remove the parentheses from each expression by multiplying both inner numbers by the outer number: $3(2x + 1) = 6x + 3$; and $2(x - 1) = 2x - 2$. Then, add the like terms: $6x + 2x = 8x$; and $3 - 1 = 2$. The answer is $8x + 1$.

Question: 4

Joe walks $\frac{1}{2}$ mile to school one way. He also walks the same distance home from school. He attends school 5 days a week. How many miles does Joe walk to and from school in 1 month?

- a. 5
- b. 20
- c. 4
- d. 50

Answer: B

Explanation:

Joe walks $\frac{1}{2}$ mile to school and $\frac{1}{2}$ mile back home. So, $\frac{1}{2}$ mile + $\frac{1}{2}$ mile = 1 mile. One mile x 5 days a week = 5 miles a week. Four weeks in a month x 5 miles = 20 miles.

Question: 5

$5(x + 1) + 4(2x - 3) = 45$. Solve for the variable x . What does x equal?

- A. 5
- B. 4
- C. 3
- D. 2

Answer: B

Explanation:

Simplify the equation: $5(x + 1) + 4(2x - 3) = 45$. Reorder the terms: $5(1 + x) + 4(2x - 3) = 45 = (1 * 5 + x * 5) + 4(2x - 3) = 45$, so $5 + 5x + (-3 * 4 + 2x * 4) = 45$, so $5 + 5x + (-12 + 8x) = 45$. Reorder those terms: $5 + -12 + 5x + 8x = 45$. Combine like terms: $5 + -12 = -7$; $-7 + 5x + 8x = 45$; $5x + 8x = 13x$ and $-7 + 13x = 45$. To solve for x , $-7 + 13x = 45$; move all terms with x to the equation's left, the rest to the right, and add 7 to each side: $-7 + 7 + 13x = 45 + 7$. Combining like terms, $-7 + 7 = 0$; $0 + 13x = 45 + 7$, so $13x = 45 + 7$. Then, $45 + 7 = 52$, so $52 = 13x$. Finally, $52 \div 13 = 4$; $x = 4$.

Question: 6

$9.4 \times 10^2 =$

- a. 940
- b. 94
- c. 0.94
- d. 9400

Answer: A

Explanation:

The term 10^2 , or 10 squared, equals 10 times itself or $10 \times 10 = 100$. So, $9.4 \times 100 = 940$. The other answer choices all have the decimal in the wrong place.

Question: 7

If a room is 24 feet wide and 30 feet long, what is its area?

- A. 54 square feet
- B. 240 square feet
- C. 720 square yards
- D. 80 square yards

Answer: D

Explanation:

To calculate area, multiply length times width, so $24 \times 30 = 720$ square feet. This is not an answer choice here. However, there are 3 feet in 1 yard, so convert the original dimensions to yards ($24 \text{ ft} = 8 \text{ yards}$; $30 \text{ ft} = 10 \text{ yards}$) and multiply those dimensions to get $8 \times 10 = 80$ square yards.

Question: 8

The radius of a circle is

- A. twice the diameter.
- B. half the diameter.
- C. half the circumference.
- D. twice the circumference.

Answer: B

Explanation:

The *radius* of a circle is the distance from its center to its edge. The diameter of a circle is the distance across from edge to edge. Hence, the radius is one half of the diameter. *Circumference* [(C), (D)] is not simply half or twice the radius; it is calculated by using the formula $C = 2\pi r$ with the radius, or $C = \pi d$ with the diameter.

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