



Name.....

1. Variables in Tables

1. Sadie ordered a pizza and had it delivered. The delivery fee is \$3.50. The total cost c is equal to the cost of her pizza p plus \$3.50. The rule is $p + 3.50$. Complete the table using the rule to find the total cost if her pizza costs \$9.75, \$12.00, or \$14.50.

Choose the correct set of outputs.

Input, Cost of Pizza (\$), p	Rule $p + 3.50$	Output, Total Cost (\$), c
9.75	$9.75 + 3.50$	<input type="text"/>
12.00	$12.00 + 3.50$	<input type="text"/>
14.50	$14.50 + 3.50$	<input type="text"/>

- A.

13.25	15.50	18.00
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- B.

12.25	14.50	17.50
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- C.

12.75	15.00	17.75
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- D.

13.50	15.75	18.25
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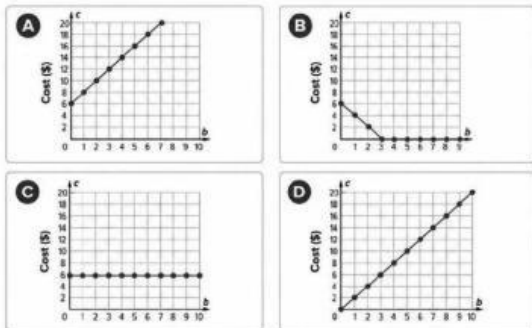
2. Writing Equations

A gym charges AED 20 plus AED 5 per visit. Which equation represents the total cost " C " after " v " visits?

- A. $C = 20v + 5$
- B. $C = 5v + 20$
- C. $C = 25v$
- D. $C = 20 - 5v$

3. Graphs and Equations

The equation $c = 2b + 6$ represents the total cost c of b sets of beads and one necklace string. Graph the relationship on the coordinate plane. (Example 1)



4. Independent and Dependent Variables

A taxi fare depends on the distance traveled. Which is the dependent variable?

- A. Distance traveled
- B. Taxi fare
- C. Time of day
- D. Number of passengers



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5. Area of a Parallelogram

Find the area of a parallelogram with base 8 cm and height 6 cm.

- A. 14 cm^2
- B. 24 cm^2
- C. 48 cm^2
- D. 56 cm^2

6. Missing Dimension of a Parallelogram

A parallelogram has area 60 cm^2 and height 5 cm. What is the base?

- A. 10 cm
- B. 12 cm
- C. 15 cm
- D. 20 cm

7. Area of a Triangle

Find the area of a triangle with base 10 cm and height 8 cm.

- A. 18 cm^2
- B. 40 cm^2
- C. 80 cm^2
- D. 90 cm^2

8. Understanding Trapezoids

A trapezoid can be decomposed into:

- A. Two rectangles only
- B. A rectangle and triangles
- C. Three circles
- D. Two squares only

9. Area of a Trapezoid

Find the area of a trapezoid with bases 8 cm and 12 cm and height 5 cm.

- A. 40 cm^2
- B. 45 cm^2
- C. 50 cm^2
- D. 60 cm^2