WARM-UP

Solve for x.

1)
$$x + 5.6 = 9.8$$

2)
$$x - 1.7 = 9$$

$$3) x + 2.25 = 7.85$$

4)
$$-6x = 36$$

$$6) -0.9x = 8.1$$

7) Write an expression for the perimeter of a rectangle, whose length is three times as long as the width.

WARM-UP

Solve

1)
$$4y + 5 = 49$$
 2) $8 - 7w = 57$

2)
$$8 - 7w = 57$$

$$3) 2x - 5 - 8x = -41$$

<u>DA</u> Up n ork

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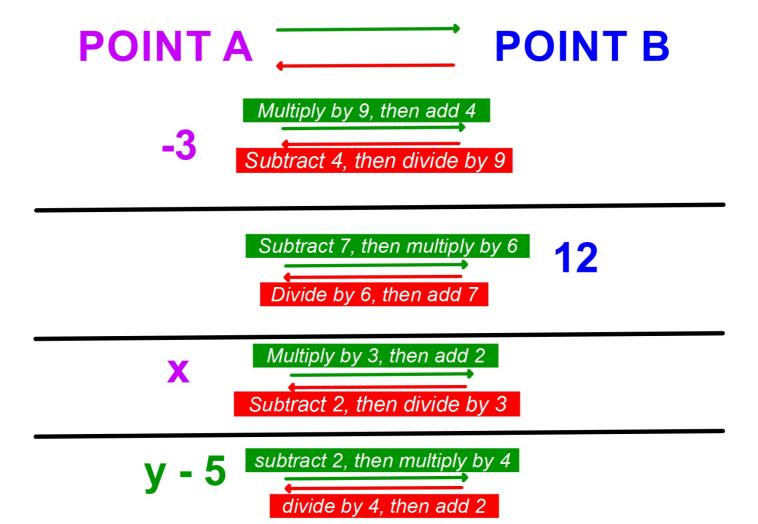
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a)

UP! take day lov.10

First, list the steps for solving the equations below. Then, SOLVE.

5)
$$8(k + 9) = -16$$



Lesson Essential Question:

How can we use backtracking to help us solve a two-step equation?

EXAMPLE: 3x + 8 = 29

EXAMPLE: 3x + x - 7 = 21

COMBINE ALL LIKE TERMS FIRST

1) DRAW your RIVER (line) and box the variable.

- 2) Perform inverse (or opposite) operation(s).
- 3) Cirlce your final answer.



$$\frac{3x}{3} \neq \frac{21}{3}$$

X

1) DRAW your RIVER (line) and box the variable.

3) Circle your final answer.

4x - 7 = 21

$$+7 = +7$$

$$4x = 28$$

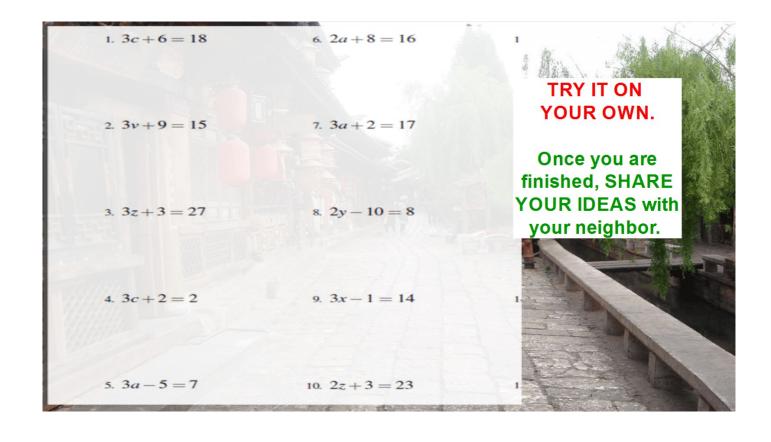
x =

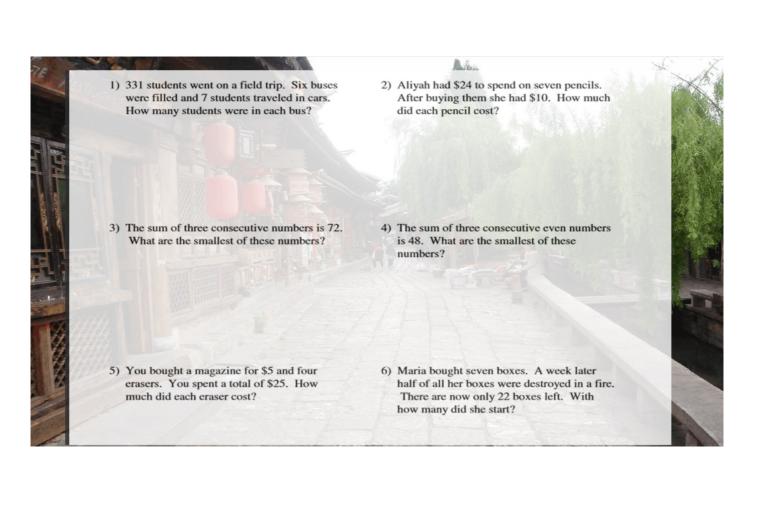
DID MY ANSWER HAVE???

I VARIABLE TERM

■ an EQUAL SIGN

■ CONSTANT







Your family is purchasing new carpet for your bedroom. After measuring your room, the carpenter tells you the length is 9 feet and your width is represented by (x + 4).

- 1) Write an expression that finds the area of your bedroom.
- 2) Suppose the area of your bedroom is 172 ft². What is the width of the bedroom?
- 3) What if you wanted to add border around your room. How much border would you need?

Your family is purchasing new carpet for your bedroom. After measuring your room, the carpenter tells you the length is 7 feet and your width is represented by (x + 5).

- 1) Write an expression that finds the area of your bedroom.
- 2) Suppose the area of your bedroom is 98 ft². What is the width of the bedroom?
- 3) What if you wanted to add border around your room. How much border would you need?