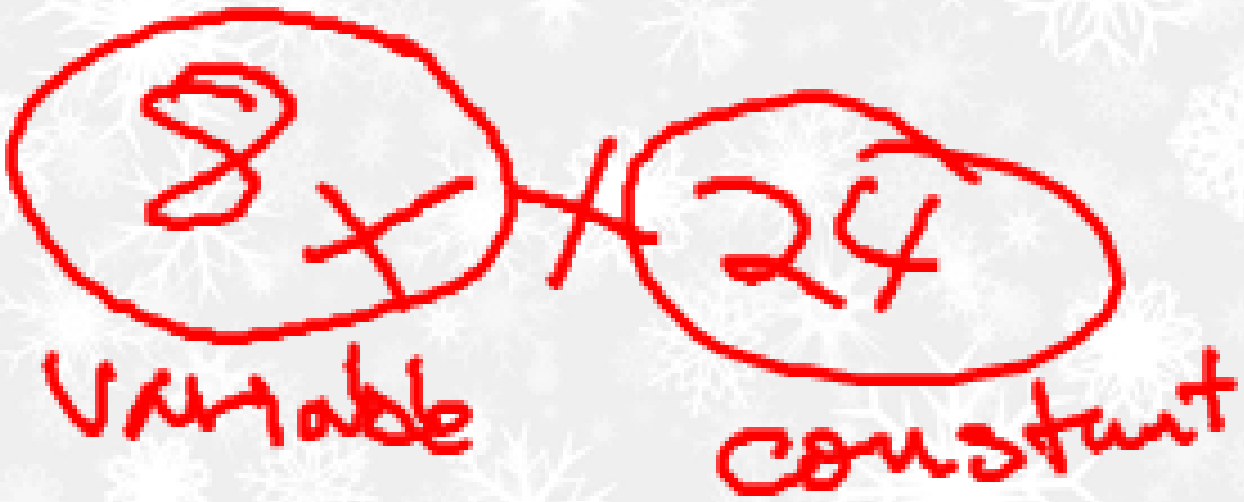
Warm Up:

Use the distributive property to simplify the expression:

$$8(x + 3)$$



The steps of a two step equation:

Our goal is to... 

Always perform opposite operations to BOTH SIDES.

Step 1: Add or Subtract on BOTH sides

Step 2: Multiply or Divide on BOTH sides

Step 3: Check your answer!

(Okay, so maybe it's kind of like a three step equation).

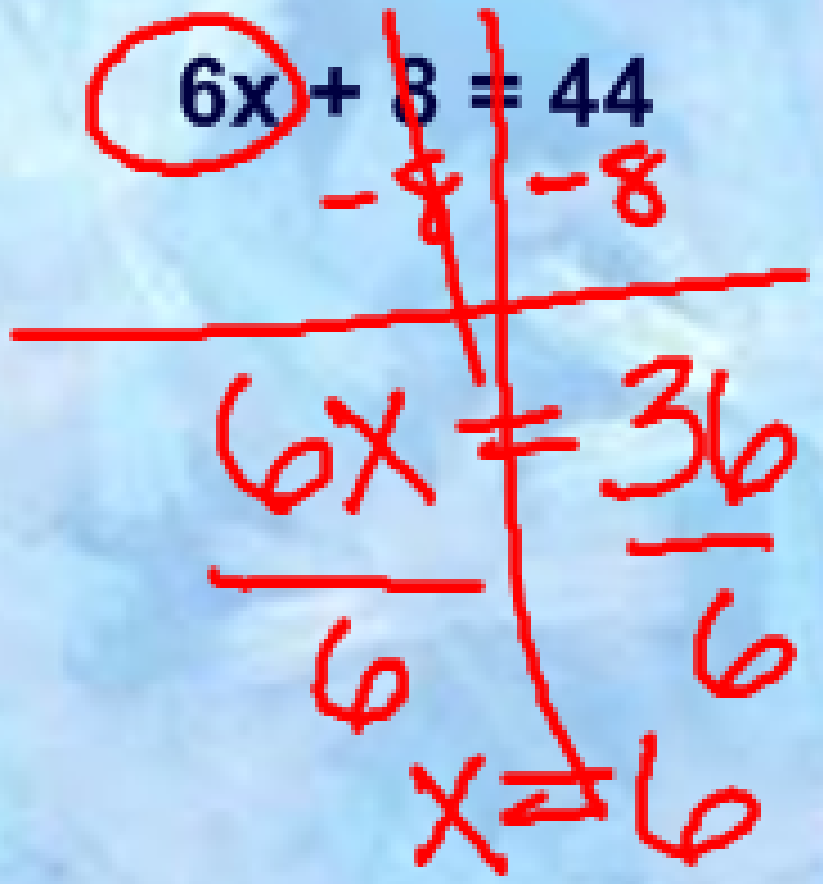

http://youtu.be/J2TYyUftI8k

6(6)+8=44

Let's Try!

36+8=44

1) Solve for x:



$$6x + 8 = 44$$

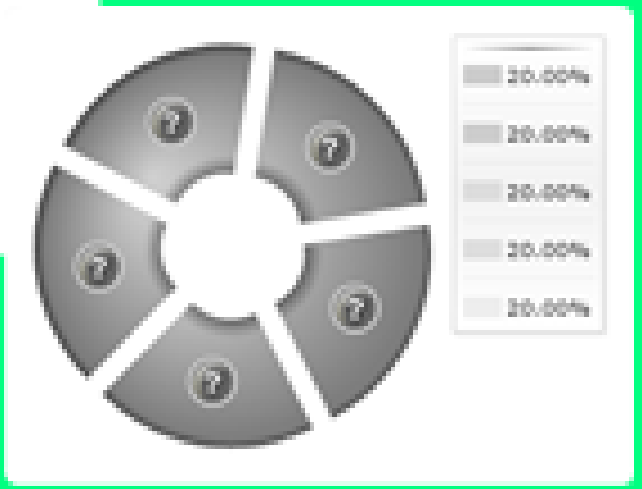
A $x = 9$

B $x = 12$

C $x = 7$

D $x = 10$

E $x = 6$



14(3) −14 = 28

42 − 14 = 28 ✓

last

2) $14y - 14 = 28$

$+14 \quad +14$

$\frac{14y}{14} = \frac{42}{14}$

$y = 3$

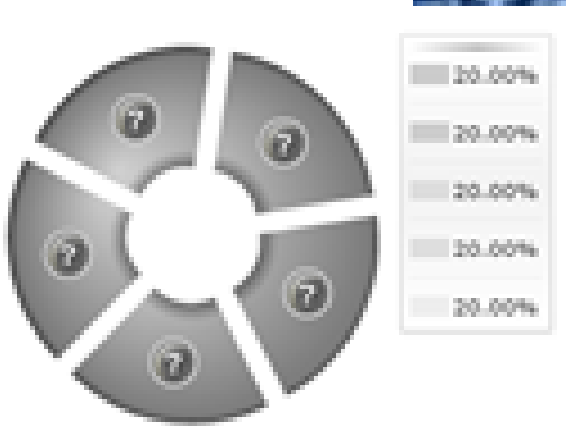
$$14y - 14 = 28$$

A. $y = 2$

B. $y = 14$

C. $y = 3$

D. $y = 1$



$\frac{63}{7} + 3 = 12$

$9 + 3 = 12$

3) $\frac{m}{7} + 3 = 12$

$-3 \quad -3$

$\frac{m}{7} = 9 \cdot \frac{7}{1}$

$m = 63$

$$\frac{m}{7} + 3 = 12$$

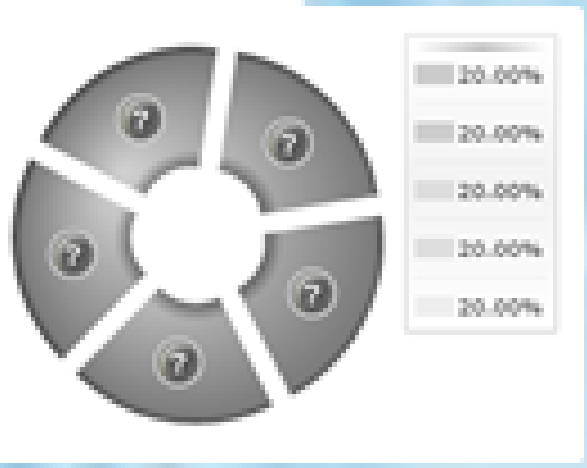
A. m = 63

B. m = 105

C. m = 21

D. m = 16

E. m = -63



4) $\frac{v}{-8} - 6 = 8$

$+6 \quad +6$

$\frac{v}{-8} = 14$

$v = -112$

$\frac{-112}{-8} - 6 = 8$

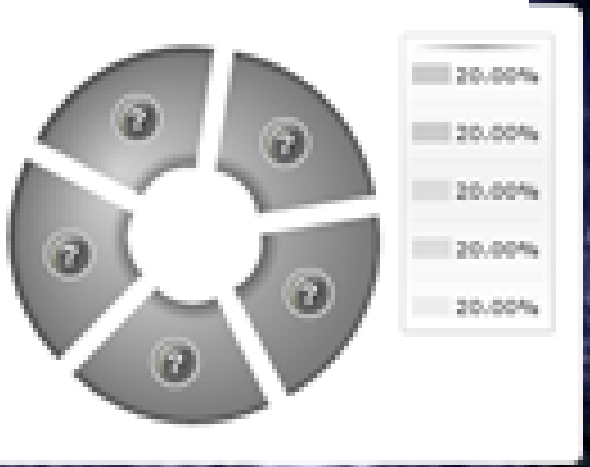
$14 - 6 = 8 \checkmark$

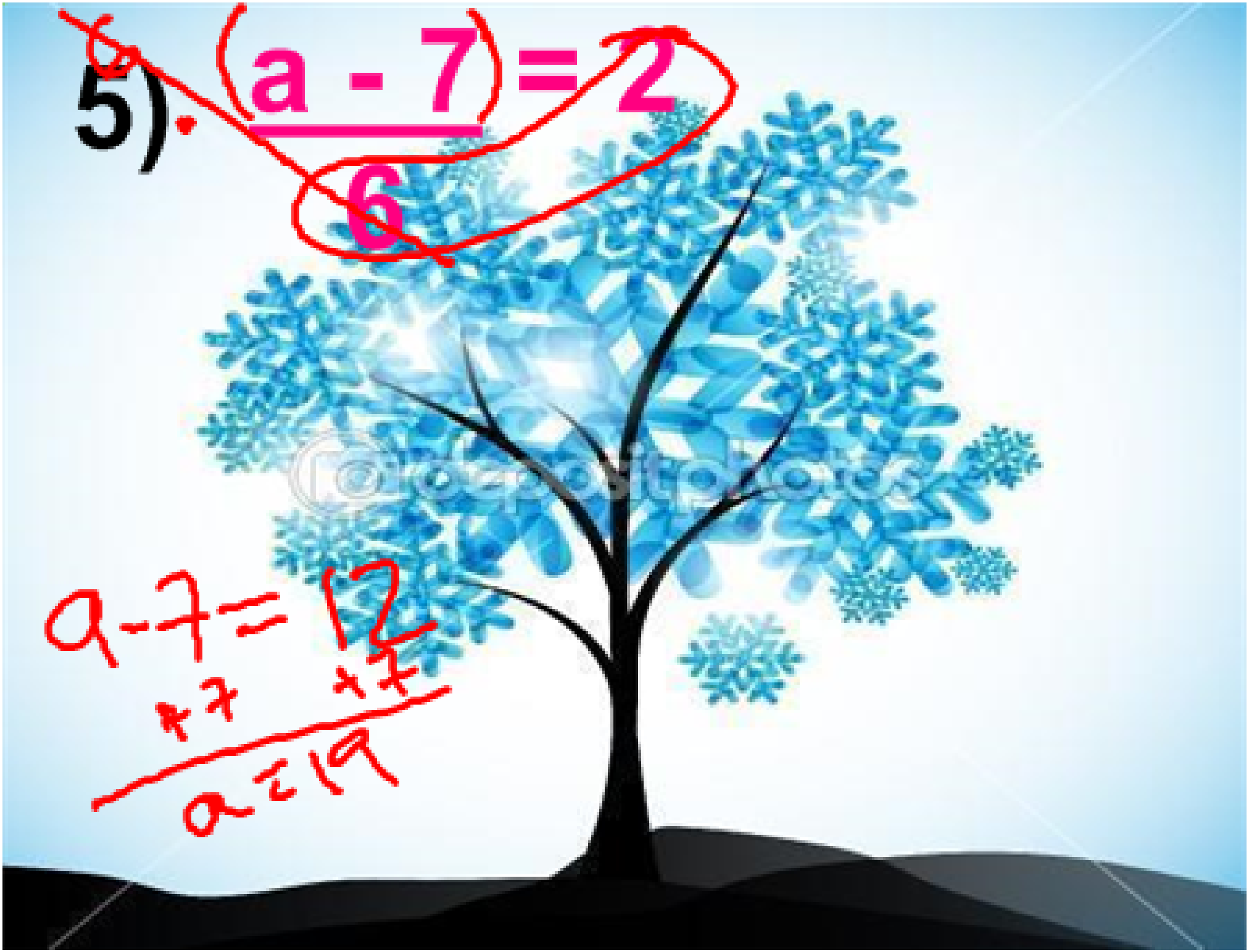
$$\frac{v}{-8} - 6 = 8$$

A. v = -16

B. v = -112

C. v = 112




5). $\frac{a - 7}{6} = 2$
a - 7 = 12
+7 +7
a = 19

$\frac{(a-7)}{6} = 2 \cdot 6$

$a - 7 = 12$

$+7 \quad +7$

$a = 19$

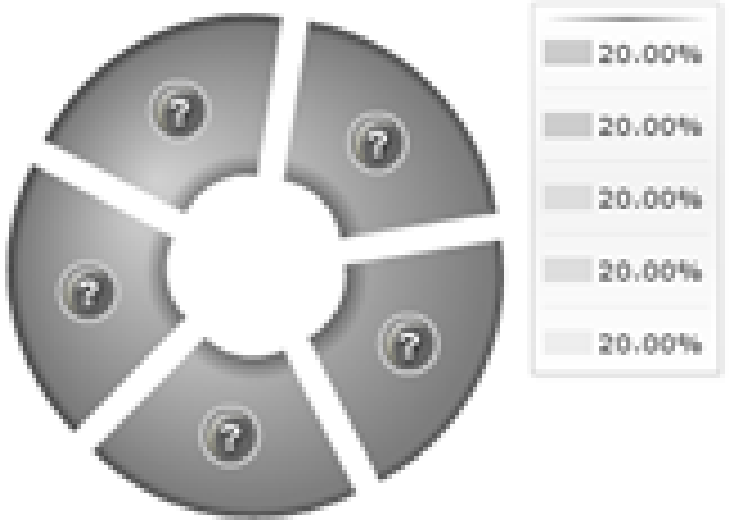
A. a = 3

B. a = 5

C. a = -19

D. a = 19

E. a = 10



6) Two years of local Internet service costs $685, including the installation fee of $85. What is the *monthly* fee?

Define your variable: Let x = monthly fee

Write an equation: $24x + 85 = 685$

Solve:

$-85 \quad -85$

$\frac{24x}{24} = \frac{600}{24}$

$x = \$25$

ASGN #41:

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