

1

5a. Are the following statements true or false?

A. If $x = 6$, then $3x - 2 = 16$

16			
x	x	x	-2

B. If $y = 4$, then $2y + 5 = 12$

12		
y	y	y

A

5b. Are the following statements true or false?

A. If $x = 6$, then $0.5x + 2 = 5$

5	
$0.5x$	2

B. If $y = 5$, then $4y - y = 25$

25				
y	y	y	y	$-y$

9a. Are the following statements true or false?

A. If $x = 12$, then $0.75x = 9$ B. If $y = 7$, then $3y \div y = 5$ C. If $z = 4$, then $7 - z = -1$

3

5a. Choose a value for y and find three possibilities to complete the following equation.

$$\boxed{}y + \boxed{} = 6$$

6		
y	y	$+ ?$

5b. Choose a value for y and find three possibilities to complete the following equation.

$$\boxed{}y - \boxed{} = 12$$

12			
y	y	y	$- ?$

2

6a. What is the value of c ?

$$11c - 16 = 116$$

116										
c	c	c	c	c	c	c	c	c	c	-16



9

12

14

VF



8

9

10

10a. What is the value of c ?

$$\frac{1}{5}c + 48 = 60$$

12

30

60



4

6a. James and Lily are solving the following algebraic equation.

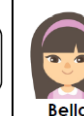
$$0.5x - 9 = 5$$



This equation is impossible because 9 is smaller than 0.5.

 x must be 28 for this equation to be balanced.

Who is correct? Prove it.



6b. Danny and Bella are solving the following algebraic equation.

$$20 \div 8x = 10$$

 x must be $\frac{1}{4}$ for this equation to be balanced.This equation is impossible because $20 \div 8 = 2.5$.

Who is correct? Prove it.

