

Two-Step Equations

1a. Are the following statements true or false?

A. If $x = 4$, then $2x + 1 = 9$

9		
x	x	1

B. If $y = 5$, then $4y + 1 = 20$

20				
y	y	y	y	1



VF

Two-Step Equations

1b. Are the following statements true or false?

A. If $x = 3$, then $4x + 3 = 15$

15				
x	x	x	x	3

B. If $y = 7$, then $2y - 6 = 14$

14		
y	y	-6



VF

2a. What is the value of c ?

$$5c - 11 = 39$$

39					
c	c	c	c	c	-11



9

10

11

VF

2b. What is the value of c ?

$$7c - 9 = 33$$

33							
c	c	c	c	c	c	c	-9



6

7

8

VF

3a. Match each equation to the bar model to find the value of a .

$$5a + 2 = 32$$

?				
5	5	5	5	3

$$6a - 9 = 15$$

?					
4	4	4	4	4	-9

$$23 = 3 + 4a$$

?					
6	6	6	6	6	2



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3b. Match each equation to the bar model to find the value of a .

$$3a - 5 = 4$$

?					
22	-4	-4	-4	-4	-4

$$2a + 7 = 23$$

?			
3	3	3	-5

$$2 = 22 - 5a$$

?		
8	8	7



VF

4a. Fill in the missing operations to show how to solve the equation below.

$$3x + 4 = 22$$

22			
x	x	x	4

$$\downarrow \quad ?$$

$$3x = 18$$

18		
x	x	x

$$\downarrow \quad ?$$

$$x = 6$$

6
x



VF

4b. Fill in the missing operations to show how to solve the equation below.

$$5x - 7 = 28$$

28					
x	x	x	x	x	-7

$$\downarrow \quad ?$$

$$5x = 35$$

35				
x	x	x	x	x

$$\downarrow \quad ?$$

$$x = 7$$

7
x



VF