

Warm Up

Solve + Verify

$$1.) \frac{x}{3} - 5 = 7$$

$$(3) \frac{x}{3} = 12$$

$$x = 36$$

$$2.) 9 - \frac{2r}{3} = 5$$

$$-\frac{2r}{3} = -4$$

$$\frac{-2r}{3(-2)} = \frac{-4}{(-2)}$$

$$\frac{r}{3} = 2$$

$$(3) \frac{r}{3} = 2$$

$$r = 6$$

L S	R S
$\frac{x}{3} - 5$	7
$\frac{36}{3} - 5$	
12 - 5	
7	

L S = R S $\therefore x = 36$

L S	R S
$9 - \frac{2r}{3}$	5
$9 - \frac{2(6)}{3}$	
$9 - \frac{12}{3}$	
$9 - 4$	
5	

L S = R S
 $\therefore r = 6$

Solve for m . Verify your answer

$$3m - 2 = 8 - 2m$$

$$3m + 2m - 2 = 8 - 2m + 2m$$

$$5m - 2 = 8$$

$$5m = 10$$

$$\frac{5m}{5} = \frac{10}{5}$$

$$m = 2$$

LS	RS
$3m - 2$	$8 - 2m$
$3(2) - 2$	$8 - 2(2)$
$6 - 2$	$8 - 4$
4	4

$$LS = RS \therefore m = 2$$

Try this. (Verify)

$$3(2x+1) = 5(x-2)$$

$$6x + 3 = 5x - 10$$

$$x + 3 = -10$$

$$x = -13$$

LS	RS
$3(2x+1)$	$5(x-2)$
$3(2(-13)+1)$	$5(-13-2)$
$3(-26+1)$	$5(-15)$
$3(-25)$	-75
-75	

$$LS = RS \therefore x = -13$$

HOMEWORK

Complete worksheets (1 - 9)