

**Warm up**

February 23

Solve and verify.

1.  $4y - 10 = 3y$

2.  $4f + 5 - 2f = 3f$

3.  $4(y + 8) = 7(y + 2)$

4.  $\frac{3y}{10} = 19 - \frac{1y}{5}$

solutions

Warm up

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Solve and verify.

1.  $4y - 10 = 3y$

$$4y - 3y = 10$$

$$y = 10$$

LS	RS
$4y - 10$	$3y$
$4(10) - 10$	
$40 - 10$	
$30$	

$LS = RS \therefore y = 10$

2.  $4f + 5 - 2f = 3f$

$$4f - 2f - 3f = -5$$

$$\frac{-f}{-1} = \frac{-5}{-1}$$

$$f = 5$$

LS	RS
$4f + 5 - 2f$	$3f$
$4(5) + 5 - 2(5)$	$3(5)$
$20 + 5 - 10$	$15$
$15$	

$LS = RS \therefore f = 5$

## solutions

3.  $4(y + 8) = 7(y + 2)$

$$4y + 32 = 7y + 14$$

$$4y - 7y = 14 - 32$$

$$-3y = -18$$

$$\frac{-3y}{-3} = \frac{-18}{-3}$$

$$y = 6$$

LS	RS
$4(y+8)$	$7(y+2)$
$4(6+8)$	$7(6+2)$
$4(14)$	$7(8)$
56	56
$LS = RS \therefore y = 6$	

4.  $\frac{3y}{10} = 19 - \frac{1y}{5}$

$$10\left(\frac{3y}{10}\right) = 10(19) - 10\left(\frac{1y}{5}\right)$$

$$3y = 190 - 2y$$

$$3y + 2y = 190$$

$$\frac{5y}{5} = \frac{190}{5}$$

$$y = 38$$

LS	RS
$\frac{3y}{10}$	$19 - \frac{1y}{5}$
$\frac{3(38)}{10}$	$19 - \frac{38}{5}$
11.4	$19 - 7.6$
$LS = RS \therefore y = 38$	

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