

Section 1.3: Solving Equations with Variables on Both Sides
In Class Notes

Name: _____

Ex:) Solve the equation. Check your solution.

a) $15 - 2x = -7x$

Check

Notes:

b) $-2(x - 5) = 6(2 - 0.5x)$

Check

Notes:

OYO:) Solve the equation. Check your solution.

a) $2.5y + 6 = 4.5y - 1$

Check

Notes:

b) $5(w - 2) = -2(1.5w + 5)$

Check

Notes:

Ex:) Solve the equation. Check your solution, if possible.

$$3 - 4x = -7 - 4x$$

Check

Notes:

Ex:) Solve the equation. Check your solution if possible.

$$6x + 4 = 4\left(\frac{3}{2}x + 1\right)$$

Check

Notes:

OYO:) Solve the equation. Check your solution, if possible.

$$6(5 - 2v) = -4(3v + 1)$$

Check

Notes:

OYO:) Solve the equation. Check your solution if possible.

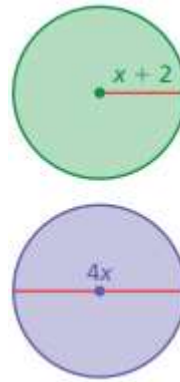
$$\frac{1}{3}(2b + 9) = \frac{2}{3}\left(b + \frac{9}{2}\right)$$

Check

Notes:

Ex:) Write & Solve an equation to answer the following.

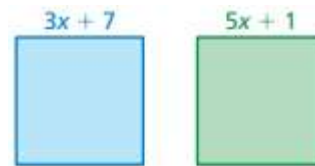
The circles are identical. What is the area of each circle?



Notes:

OYO:) Write & Solve an equation to answer the following.

The squares are identical. What is the area of each square?



Notes:

Ex:) Use a verbal model to answer the following.

A boat travels x miles per hour upstream on the Mississippi River.

On the return trip, the boat travels 2 miles per hour faster.

How far does the boat travel upstream?



Notes:

OYO:) Use a verbal model to answer the following.

A yoga studio charges a \$36 membership fee and \$20.60 per month for 10 classes. A Martial Arts studio charges a \$20 membership fee and \$22.20 per month for 10 classes. Your friend belongs to the yoga studio the same month you belong to the Martial Arts studio. After how many months is your friend's total cost the same as your total cost?