

Do Now: Simplify the expression.

$$1.) \quad 8.1(x - 4) - 5.28 = 8.1x - 37.68$$

$$2.) \quad -3(a + 2) = -3a - 6$$

$$3.) \quad 4(7 + b) + 9b - 13 = 15 + 13b$$

$$4.) \quad -0.25(8 - k) = -2 + 0.25k$$

29, 31, 28

(29)

$$108 = \cancel{76} + 4c \quad 76 + 4c = 108$$
$$\begin{array}{r} 108 \\ - 76 \\ \hline 32 \end{array} = \frac{4c}{4}$$

$$\frac{32}{4} = \frac{4c}{4}$$

(\$8 for the coupon)

$$8 = c$$

(31)

↓
- 9 ft/min

360 ft

$$\begin{aligned} \text{Total} &= \text{Part} + \text{Part} \\ \text{(a)} \quad 360 &= 234 + 9m \\ \hline \end{aligned}$$

$$\begin{array}{r} 360 - 9m = 234 \\ - 360 \\ \hline \end{array}$$

$$\begin{array}{r} - 9m = -126 \\ \hline -9 \\ \hline \end{array}$$

$$m = 14$$

14 minutes

$$\begin{array}{r} \text{(b)} \quad 360 - 9m = 180 \\ - 360 \\ \hline \end{array}$$

$$\begin{array}{r} - 9m = -180 \\ \hline -9 \\ \hline \end{array}$$

$$m = 20$$

20 minutes

28

$$100 = 45 + 11c$$

$$\begin{array}{r} 45 + 11c = 100 \\ - 45 \\ \hline \end{array}$$

$$\begin{array}{r} 11c = 55 \\ \hline 11 \\ \hline \end{array}$$

$$c = 5$$

5 CD's

3.2 Solving Equations Having Like Terms and Parentheses

7.NS.1

7.NS.2

7.EE

- SWBAT solve equations using the distributive property.
- SWBAT understand operations and how they are related.

- **Calculators: No**

A bookstore spent \$241 to send a group of students to a reading competition. Each student who won was given a \$5 gift certificate and a personalized bookmark that cost \$2. Included in the \$241 was \$45 for the salary of a staff member who accompanied the students to the competition. How many students won prizes?

$$241 = 7s + 45 \quad \text{or} \quad 241 = 5(5+2) + 45$$

$$\begin{array}{r} 241 \\ - 45 \\ \hline 196 \end{array}$$

$$\begin{array}{r} 196 = 7s \\ \hline 7 \quad 17 \end{array}$$

$$28 = s$$

28 students
won prizes

Solve the equation:

$$\text{a.) } -21 = 7(3 - x)$$

$$\begin{array}{r} -21 = \cancel{21} - 7x \\ -21 \quad -21 \\ \hline \end{array}$$

$$\begin{array}{r} -42 = \cancel{-7x} \\ -7 \quad \cancel{-7} \\ \hline \end{array}$$

$$6 = x$$

$$b.) \quad 35 - 3(8 - 4x) = 12$$

$$35 - 24 + 12x = 12$$

$$\cancel{11} + 12x = \underset{-11}{12}$$

$$1 \quad \cancel{12}x = \underset{1}{12}$$

$$x = \frac{1}{12}$$

$$c.) \quad 1.9 + 5.14x - 2(x - 1) = 8$$

$$1.9 + 5.14x - 2x + 2 = 8$$

$$190 + 514x - 200x + 200 = 800$$

$$\cancel{390} + 314x = 800$$

-390 -390

$$\frac{1314x}{314} = \frac{410}{314}$$

$$x = \frac{410}{314}$$

Reduce

$$= \frac{205}{157}$$

Solve the equation:

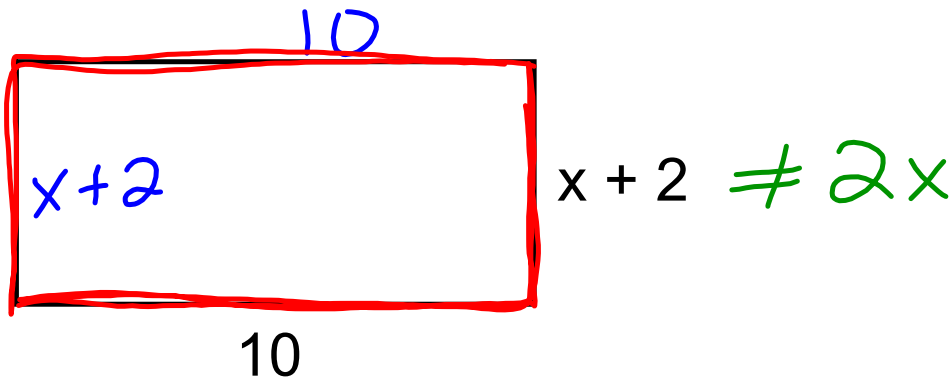
a.) $26 = 2(x - 6) - 13.1$

b.) $-2(17 - 3k) + 17 = -22$

c.) $0.4k - 3(8k - 60) = -20$

Find the value of x for the given shape.

Perimeter = 28 units



$$28 = 10 + 10 + \boxed{x+2} + \boxed{x+2}$$

$$28 = \cancel{24} + \boxed{2x}$$

$$\begin{array}{r} -24 \\ -24 \\ \hline \end{array}$$

$$\frac{4}{2} = \frac{2x}{2}$$

$$2 = x$$

Your cell phone provider charges a monthly fee of \$19.75 for 200 minutes. You are also charged \$0.25 per minute for each minute over 200 minutes. Last month, your bill was \$29.50.

Write and solve an equation to find the total number of minutes you used last month.

Exit Pass 3.2

Describe and correct the error.

$$-2(5 - n) = 2$$

$$-10 - 2n = 2$$

$$-2n = 12$$

$$n = -6$$

"Don't blame the sea if you cannot catch a fish."

Working individually or with a partner, complete the workbook.

Workbook pg. 33



Reflection of Today's Lesson

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7.NS.1

7.NS.2

7.EE

- SWBAT solve equations using the distributive property.
- SWBAT understand operations and how they are related.

- **Calculators: No**

Homework

Workbook pg. 33 #1-15 odds, #17-19 all
~~pg. 127-128 #12-36 evens only~~

