Do Now: Solve.

1. 8k - 4 - 3k - 17 + 7k= -21

2. 2z - 4(9 - 3z) = 62

3. $-34 = \frac{3d+8}{3}$ ← Dividing by 3

② $2z - 4(9 - 3z) = 62$

$-4(9)$ $-4(-3z)$

$2z - 36 + 12z = 62$

$14z - 36 = 62$

$+36 \quad +36$

$\frac{14z}{14} = \frac{98}{14}$

$z = 7$

① $8k - 4 - 3k - 17 + 7k = -21$

$8k - 3k + 7k$

$5k + 7k = 12k$

Same signs

$12k - 4 - 17 = -21$

Diff. signs

$12k - 21 = -21$

$+21 \quad +21$

$\frac{12k}{12} = \frac{0}{12}$

$k = 0$

$\frac{0}{\#} = 0$

$\frac{\#}{0} =$ undefined

Exit Pass 6.1

Tickets to the NMS dance cost $8 each. Seventy people bought their tickets in advance and the rest bought them at the door. The revenue from ticket sales is $2560. How many people bought their tickets at the door?

Part Part Total Variable ?

$8p + 8(70) = 2560$

ticket price · people + ticket price · people = total ticket price

$8p + 560 = 2560$

$-560 \quad -560$

$\frac{8p}{8} = \frac{2000}{8}$

$p = 250$

250 people bought their tickets at the door.

6.1 Solving Multi-Step Equations

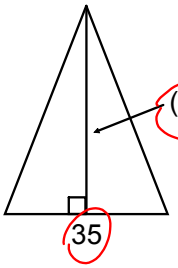
7.NS
7.EE

- SWBAT solve equations that require using two or more steps.
- SWBAT represent and analyze situations using algebraic symbols.

Calculators: Yes

Solve for x. $x = 42$

The lengths are in yards. The area is 595 square yards.



$A = \frac{1}{2} \cdot b \cdot h$

$595 = \left(\frac{1}{2}\right)(35)(x-8)$

$595 = 17.5(x-8)$

$595 = 17.5x - 140$

$+140 \quad +140$

$735 = 17.5x$

$\frac{735}{17.5} = \frac{17.5x}{17.5}$

$42 = x$

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

Working individually or with a partner, complete the workbook.

Workbook pg. 77 #1, 4, 5-13 odds, 14-19 all 5,7,9,11,13 14,15,16,17,18,19

Extra-Credit: #20, 21

Reflection of Today's Lesson

6.1 Solving Multi-Step Equations

7.NS
7.EE

- SWBAT solve equations that require using two or more steps.
- SWBAT represent and analyze situations using algebraic symbols.

Calculators: Yes

Homework

Finish the workbook assignment