

Jan. 11, 2019  
Periods 1,2,4,6

$$\begin{array}{r} y + 13 = 40 \\ - 13 \quad - 13 \\ \hline \end{array}$$

**Warm Up** - Evaluating Algebraic Expression Notes, plus pg. 87 (back of sheet)

$$\begin{array}{r} y \\ \hline \end{array} = 27$$

Check Warm UP and Homework ( pg. 18)

**Class Work -**

Pg. 97, One-Step Equations (Addition and Subtraction) Top half only

Edpuzzle - Solving 1-step using multiplication and division

**Homework** - Solving One-Step Equations Multiplication and Division, pg. 98 top half only (I-R)

## **Answers to Classwork - Jan. 10 Periods 1,2,4,6**

### Pg. 37

T n = 13	O x = -11	U a = 65	N y = 15
E u = 7	L n = -24	F q = -5	A w = 35
K x = 83	S t = -48	B v = 17	I b = -33
R k = 34	G d = 23	Q y = 42	D m = 0

### Pg. 18

R n = 62	S y = 4.5	P x = 73
U p = 16.3	H q = 41	O t = 582
B w = 14.4	G n = 9.16	Y x = 658
W n = 10	E y = 5 and 1/4	N m = 14 and 1/2
F r = 22.9	V x = 77.8	C d = 5.6
M x = 5.4	A y = 28.1	
T 95 degrees	L Ernie = 14.1 s	

Pg. 97 Answers

$$E \quad y = 27$$

$$T \quad m = 17$$

$$E \quad k = 23$$

$$A \quad a = 99$$

$$H \quad x = 14.3$$

$$T \quad v = 28.5$$

$$E \quad n = 93$$

$$H \quad q = 15.4$$

$$M \quad t = 90$$

$$Y \quad x + 75 = 120$$

$$x = 45$$

$$D \quad x - 30 = 144$$

$$x = 174$$

$$(Y) \frac{21}{Y} = 7 (Y)$$

$$\frac{21\cancel{Y}}{\cancel{Y}} = 7Y$$

$$21 = 7Y$$

pg. 98

I

$$\frac{\cancel{7}y}{\cancel{7}} = \frac{21}{7}$$

$$H \quad \frac{\cancel{\frac{1}{2}}X}{\cancel{\frac{1}{2}}} = \frac{13}{\frac{1}{2}}$$

$$13 \div \frac{1}{2}$$

K C F

$$13 \cdot \frac{2}{1} = 26$$

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Period 5

**Warm Up** - pg. 64

**Class Work**

Check homework - pg. 57 Percent of a Number Practice

Module 8 NOTES - Complete 8.1 and 8.2 sections

Copy Notes on next slide

$$\frac{1}{4} \times \frac{25}{25} = \frac{25}{100} = 25\%$$

Warm-Up, pg. 64 answers

1)  $\frac{2}{5} = \frac{4}{10} = \frac{40}{100} = 40\%$

2)  $0.05 = \frac{5}{100} = 5\%$

3)  $0.6 = \frac{6}{10} = \frac{60}{100} = 60\%$

4)  $\frac{1}{4} = \frac{25}{100} = 25\%$

### Answers to pg. 57 (1/10 homework)

Find 19% of 20      = 3.8  
90% of 70        = 13.3  
75% of 150       = 112.5  
35% of 60        = 21  
5% of 40         = 2

## Period 5 Class Notes (Jan. 11)

To Solve Percent Proportions, use the following steps...

What is 20% of 35?

$$\frac{\text{is}}{\text{of}} = \frac{\%}{100}$$

Handwritten example for "25% of what is 50":

$$\frac{\text{Is}}{\text{Of}} = \frac{\%}{100} \quad \left| \quad \frac{50}{X} = \frac{25}{100} \right.$$

Arrows indicate the mapping: 25% maps to the numerator of the right ratio, 50 maps to the numerator of the right ratio, and 100 maps to the denominator of the right ratio. The result is  $X = 200$ .

- 1) The number associated with the word "is" goes in the numerator of the left ratio.
- 2) The number associated with the word "of" is placed in the denominator of the left ratio.
- 3) The value in front of the % sign, goes in the numerator of the right ratio.
- 4) Finally, write "100" in the denominator of the right ratio. *100 is always in the right denominator.*



### Writing Percent Proportions Examples

1) What is 20% of 35?

2) 25 is 50% of what number?

3) 45 is what % of 9?

4) 10 is what % of 50?

pg. 57 answers ( cont'd)

$$16\% \text{ of } 240 = 38.4$$

$$40\% \text{ of } 300 = 120$$

$$10\% \text{ of } 18 = 1.8$$

$$60\% \text{ of } 75 = 45$$

