



Pre-Algebra

- Agenda:
- Percent Sentences

- To Do Now:
- Complete Warm Up
 - Homework on your desk (7-2 Word Problems A-Block)

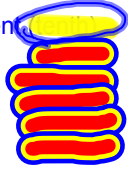
Warm Up:
Order from least to greatest:

$$\frac{3}{5}, 0.62, \frac{5}{8}\%$$

- Homework:
- [REDACTED]

Nov 4-10:28 AM

M&M Summary

		Decimal (hundredth)	Percent
RED	$\frac{15}{60}$.25	25%  25.0%
GREEN	$\frac{17}{60}$	0.28 0.29	28.3% 28.4%
BLUE	$\frac{8}{60}$.13	13.3%
BROWN	$\frac{20}{60}$	$\frac{.33}{\underline{0.99}} 1.00$	$\frac{33.3\%}{\underline{99.9\%}} 100\%$

Mar 3-7:40 AM

M&M Summary

Weight of single M&M.
2.17 oz in package

$$\frac{60 \text{ M}}{2.17 \text{ oz}} = \frac{1 \text{ M}}{X \text{ oz}}$$

$$2.17(1) = 60X$$

$$X = \frac{2.17}{60}$$

Number of M&M's in 100 lb. bag

$$16 \text{ oz} = 1 \text{ lb.}$$

$$X = 0.036$$

$$X = 0.04 \text{ oz}$$

$$\frac{60 \text{ M}}{2.17 \text{ oz}} = \frac{X \text{ M}}{1600 \text{ oz}}$$

$$X = 44,240$$

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M&M Summary-Number in 100 pound bag.

RED $\frac{15}{60}$

GREEN $\frac{17}{60}$

BLUE $\frac{8}{60}$

BROWN $\frac{20}{60}$

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Percent word problems

Recall:

"of" as a verbal phrase becomes:

"is" as a verbal phrase becomes:

Percent sentences:

"What is 5% of 20?" Can be translated word for word and solved.

Be careful how to handle the percent...change to a decimal first!

Percent sentence

Translate each sentence only!

1. Seventy percent of 120 is what number?
2. What is 8% of \$12?
3. Nine is twenty percent of what number?

Translate practice

Solve now.

1. Seventy percent of 120 is what number?

$$0.70 (120) = x$$

2. What is 8% of \$12?

$$x = 0.08 (12)$$

3. Nine is twenty percent of what number?

$$9 = 0.20x$$

Solving the translation

M&M Summary

	Decimal (hundredth)	Percent
RED $\frac{15}{60}$	0.25	25.0%
GREEN $\frac{17}{60}$	0.28333	28.3%
BLUE $\frac{8}{60}$.13	13.3%
BROWN $\frac{20}{60}$.33	33.3%

Mar 3-7:40 AM

M&M Summary

Weight of single M&M.

2.17 oz in package

$$\frac{60 \text{ M}}{2.17 \text{ oz}} = \frac{1 \text{ M}}{X \text{ oz}}$$

Number of M&M's in 100 lb. bag

$$\frac{2.17(1)}{60} = \frac{60X}{60}$$

$$\frac{60 \text{ M}}{2.17 \text{ oz}} = \frac{X \text{ M}}{1600 \text{ oz}}$$

$$X = 0.0361$$

$$X = 0.04 \text{ oz}$$

PER M&M

Mar 3-7:43 AM

M&M Summary-Number in 100 pound bag.

RED $\frac{15}{60}$

X M RED
TOTAL
100 lbs

GREEN $\frac{17}{60}$

BLUE $\frac{8}{60}$

BROWN $\frac{20}{60}$

Mar 3-7:40 AM

Percent word problems

Recall:

"of" as a verbal phrase becomes:

"is" as a verbal phrase becomes:

Percent sentences:

"What is 5% of 20?" Can be translated word for word and solved.

Be careful how to handle the percent...change to a decimal first!

Percent sentence

YOUR TURN!

1. What percent of 126 is 22?
2. 81 is 56% of what number?
3. Find 8% of 40.

Practice

Translate each sentence only!

1. Seventy percent of 120 is what number?
2. What is 8% of \$12?
3. Nine is twenty percent of what number?

Translate practice

Solve now.

1. Seventy percent of 120 is what number?

$$0.70 (120) = x$$

2. What is 8% of \$12?

$$x = 0.08 (12)$$

3. Nine is twenty percent of what number?

$$9 = 0.20x$$

Solving the translation

YOUR TURN!

1. What percent of 126 is 22?
2. 81 is 56% of what number?
3. Find 8% of 40.

Practice

Percent Problems

If you buy a \$24.00 shirt and have to pay 5% tax on that shirt, how much would the tax be? How much would you pay for the shirt and tax combined?

A CD normally costs \$18.00. The Christmas sale shows a 10% discount. What is the amount taken off? What is the final sale price?

If there is a 5% sales tax on that CD, what is the final price of the CD? If the salesperson states that since she is going to take 10% off and then add 5% for the tax, would you mind if she just takes 5% off and that is all? Is it the same price? Show proof.

Percent word problems



Intro to-Algebra

Agenda:

- Solving Systems of Equations

To Do Now:

- Have your homework on your desk (Solving Systems by Elimination)
- Complete Warm Up

Warm Up:

- Find the x and y intercepts of the equation:

$$4 - (x + 2y) = -2y + 3x$$

$$4 - x - 2y = -2y + 3x$$

$$4 - x = 3x$$

$$4 = 4x$$

$$x = 1$$

Homework:

- Quiz tomorrow on Solving Systems

Nov 4-10:28 AM



Advanced Algebra

Agenda:

- Dividing Radicals

To Do Now:

- Have your homework on your desk (Multiplying/Dividing Radicals)
- Complete Warm Up

Warm Up:

- Simplify:

$$4\sqrt{\frac{75}{32}}$$

$$\frac{4\sqrt{25}\sqrt{3}}{\sqrt{16}\sqrt{2}}$$

$$\frac{5\sqrt{3}}{4\sqrt{2}} \quad \boxed{\frac{5\sqrt{6}}{2}}$$

Homework:

- Quiz on Radical Operations (Simplifying, Add/Sub, Mult., Divide)
- Study

$$\frac{5\sqrt{3}}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}} = \frac{5\sqrt{6}}{2}$$

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Simplify:

$$\frac{3}{4+4\sqrt{5}}$$

$$\frac{5}{-5-3\sqrt{3}}$$

Mar 3-7:45 AM

#1

$$\frac{\sqrt{15}}{5\sqrt{20}}$$

$$\frac{\sqrt{15}}{5\sqrt{4}\sqrt{5}}$$

$$\frac{\sqrt{15}}{5 \cdot 2\sqrt{5}}$$

$$\frac{\sqrt{15}}{10\sqrt{5}}$$

↓

$$\frac{\sqrt{15} \sqrt{5}}{10\sqrt{5} \sqrt{5}}$$

$$\frac{\sqrt{75}}{10 \cdot \sqrt{25}}$$

$$\frac{\sqrt{25}\sqrt{3}}{10 \cdot 5}$$

$$\frac{5\sqrt{3}}{50}$$

$$\frac{\sqrt{3}}{10}$$

$$\frac{\sqrt{5}\sqrt{3}}{10\sqrt{5}}$$

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#12

$$\frac{3N^2 + \sqrt{2N^2}}{\sqrt{10N}}$$

$$\frac{3N^2 + N\sqrt{2}}{\sqrt{10N}}$$

$$\frac{(3N^2 + N\sqrt{2}) \cdot \frac{\sqrt{10N}}{\sqrt{10N}}}{\sqrt{10N} \cdot \frac{\sqrt{10N}}{\sqrt{10N}}}$$

$$\frac{3N^2\sqrt{10N} + N\sqrt{20N}}{10N}$$

$$\frac{\cancel{N}(3N\sqrt{10N} + 2\sqrt{5N})}{\cancel{10N}}$$

$$\frac{3N\sqrt{10N} + 2\sqrt{5N}}{10}$$

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#1

$$3\sqrt{12} \cdot \sqrt{6}$$

$$3\sqrt{4}\sqrt{3} \cdot \sqrt{6}$$

$$3 \cdot 2\sqrt{18}$$

$$6\sqrt{18}$$

$$6\sqrt{9}\sqrt{2}$$

$$6 \cdot 3\sqrt{2}$$

$$18\sqrt{2}$$

$$3\sqrt{72}$$

$$3\sqrt{36}\sqrt{2}$$

$$3 \cdot 6\sqrt{2}$$

$$18\sqrt{2}$$

Mar 3-12:51 PM