

7th Grade
Jan 4, 2021

Today we will:

- set up table of contents for Unit 6 on Percents
- complete notes (on Edpuzzle)
- work on WS

HOMEWORK:

Complete HW
Practice WS

New ALEKS
assignment starts
tomorrow (60 min
and 5 topics) and
will be due Jan 12



$$\frac{3}{5} = \frac{\%}{100}$$

$$\% = 60\%$$

Using the Percent Proportion

Example 1

15 is what percent of 125?

$$\frac{\text{is}}{\text{of}} = \frac{15}{125} = \frac{p}{100}$$

$p = 12\%$

Example 2

Find 13% of 74.

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

$$\frac{x}{74} = \frac{13}{100}$$

$74 \times 13 \div 100 = 9.62$

Example 3

What number is 6.5% of 200?

$$\frac{x}{200} = \frac{6.5}{100}$$

$x = 200 \times 6.5 \div 100 = 13$

Example 4

7.8 is 400% of what number?

$$\frac{7.8}{x} = \frac{400}{100}$$

$x = 7.8 \times 100 \div 400 = 1.95$

Example 5

9.5 is ___ % of 40.

$$\frac{9.5}{40} = \frac{p}{100}$$

$p = 9.5 \times 100 \div 40 = 23.75$

Example 6

5.356 is 100% of 5.356.

Example 7

What is $4\frac{3}{4}\%$ of 80?

_____ is missing

$$\frac{x}{80} = \frac{4\frac{3}{4}}{100}$$

$x = 80 \times 4\frac{3}{4} \div 100 = 3.8$

Example 8

66 is $8\frac{1}{4}\%$ of what number?

_____ is missing

$$\frac{66}{x} = \frac{8\frac{1}{4}}{100}$$

$x = 66 \cdot 100 \div 8\frac{1}{4} = 800$

Example 9

_____ is missing.

Example 10

_____ is missing.

Story Problem

Mr. Smith bought a house for \$ _____. Five years later, he sold it for 24% profit. What was the sale price of the house?



Lesson 1 Homework Practice

Using the Percent Proportion

Use the percent proportion to solve each problem. Round to the nearest *tenth*, if necessary.
****Calculators OK. Must show set-up.****

1. 128 is what percent of 640?

2. What percent of 21 is 28?

3. 3.4 is what percent of 5?

4. What percent of 930 is 720?

5. 15 is what percent of 120?

6. What percent of 24 is 21?

7. 36 is what percent of 40?

8. What percent of 48 is 0.6?

9. 12 is 80% of what number?

10. 15 is 4% of what number?

11. 33 is 90% of what number?

12. 0.24 is 36% of what number?

13. 19 is 10% of what number?

14. 49 is 77% of what number?

15. Stacia has saved \$36 toward the purchase of a new MP3 player. This is 28% of the total price. What is the price of the MP3 player?

16. About 42% of a paint mix is white. A painter orders 18 gallons of the paint mix. How much of it is white?