

7th Grade  
Jan 11, 2021

Today we will:

- take notes and examples on Lesson 3, Using the Percent Equation
- begin HW

Are there any THQs to turn be turned in (absent or late)?

**HOMEWORK:**

Magnolia WS

ALEKS assignment:  
60 min and 5 topics  
due TONIGHT by  
11:59pm



## Gr7 Ch6-3 Video Notes

When you see...	Replace it with...
"What"	
	=
"Of"	
a percent	

## Percent Equations

Example 1:  
 40 is 12 percent of what number?

STEP 1: TRANSLATE / REPLACE

40 = .12 · (x)

STEP 2: SOLVE (divide both sides by .12)

$x = 333.\bar{3}$

STEP 3: CHECK THAT YOUR ANSWER IS REASONABLE

Examples: Translate only.

40 is 12% of what?

What is 18% of 45?

Translate, then solve. Calculators OK. Show setup.

1. What is \_\_\_% of 300?

2. What percent of 20 is \_\_\_?

3. 64 is what percent of \_\_\_\_\_?

4. \_\_\_\_\_% of what number is 90?





**PERCENT OF A NUMBER:** Answer the following questions, then solve the riddle.

*What was wrong with the math class's magnolias?*

1. 80% of 250 is what?

$$.80 \cdot 250 = X \quad \underline{200}$$

2. 64% of 125 is what?

\_\_\_\_\_

3. What percent of 200 is 104?

$$\frac{X}{200} \cdot 200 = \frac{104}{200} = 0.52 = 52\%$$

4. What percent of 124 is 62?

$$\frac{X}{124} \cdot 124 = \frac{62}{124} = 0.50 = 50\%$$

5. 30% of what number is 21.3?

$$\frac{0.30 \cdot X}{0.30} = \frac{21.3}{0.30} \quad \underline{71}$$

6. 80% of what number is 64?

\_\_\_\_\_

7. 4% of 125 is what?

\_\_\_\_\_

8. What percent of 76 is 17.48?

\_\_\_\_\_

9. What is 2% of 50?

\_\_\_\_\_

10. 42% of what number is 38.22?

\_\_\_\_\_

11. 342 is what percent of 475?

\_\_\_\_\_

12. 25% of 404 is what?

\_\_\_\_\_

13. What is 300% of 60?

\_\_\_\_\_

14. 44.88 is 88% of what?

\_\_\_\_\_

15. 90% of 90 is what?

\_\_\_\_\_

16. 4,635 is what percent of 900?

\_\_\_\_\_

17. 83% of what number is 166.83?

\_\_\_\_\_

18. 10% of 90 is what?

\_\_\_\_\_

*To solve the riddle...*

A. Put the answers for the questions above, in order, in one long line of digits.

1 1 1 2 2 3 3 4 4 5 5 6 6 7 8 8 9 10 10 11 11 12 12 12 13 13 13 14 14 15 15 16 16 16 17 17 17 18

B. Divide that long string of digits into two-digit numbers. For example, "2 0 0 8" becomes 20 and 08 (or 8).

\_\_\_\_\_

C. Assign a letter of the alphabet to each new number to find the riddle's answer. (1=A, 2=B, ..., 25=Y, 26=Z.)

*What was wrong with the math class's magnolias?*

\_\_\_\_\_.

Code to help with Magnolia Riddle WS:

1 - A	11 K	21 V
2 - B	12 L	22 W
3 - C	13 M	23 X
4 - D	14 N	24 Y
5 - E	15 O	25 Z
6 - F	16 P	
7 - G	17 Q	
8 - H	18 R	
9 - I	19 S	
10 - J	20 T	