



**How can I find the percent of a given number?**

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**Some percents are easier to find than others...**

What is 50% of 10?      50% means I need to find \_\_\_\_\_ of something. \_\_\_\_\_ of 10 is \_\_\_\_\_

What is 25% of 40?      25% means I need to find \_\_\_\_\_ of something. \_\_\_\_\_ of 40 is \_\_\_\_\_

What is 33% of 60?      33% means I need to find \_\_\_\_\_ of something. \_\_\_\_\_ of 60 is \_\_\_\_\_

What is 75% of 12?      75% means I need to find \_\_\_\_\_ of something. \_\_\_\_\_ of 12 is \_\_\_\_\_

There are 36 students on the student council. 75% of those students voted for the next spirit day to be **Neon Day**. How many students voted for **Neon Day**?

**The Question being asked: What is 75% of 36?**

In order to solve this word problem, having an understanding of what 75% is really helps. If I know that 75% really means 75 'out of' 100, or  $\frac{75}{100}$ , it really helps me understand and attack the problem in more than one way. One way is...

1. We know  $\frac{75}{100}$  can be simplified to  $\frac{3}{4}$ . The question being asked can actually be written as 'What is  $\frac{3}{4}$  of 36? To find a fraction of a number, just multiply the number times the fraction. Therefore,  $\frac{3}{4} \times 36$  will give me the answer to this problem.

$$\frac{3}{4} \times 36$$

**Method 1: Multiply the number times the percent as a fraction.**

2. The second way I can answer this question is by understanding that fractions can always be substituted with decimal equivalents in any math problem. I can convert 75% (which is a fraction) into a decimal. 75% means 75 out of 100, or 75 **hundredths**. Now you can multiply the number times a decimal.

$$\frac{75}{100} = 0.75$$

$$0.75 \times 36.$$

**Method 2: Multiply the number times the percent as a decimal.**

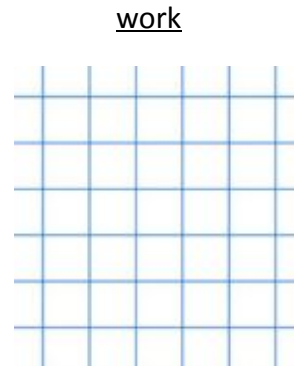
This method is **EXTREMELY HELPFUL** (and \_\_\_\_\_)  
when we don't know what the percent is as a simple fraction like one fourth, half,  
one third, etc...

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**What is p% of n ?     ...do      $p \times n$**

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Example:  
What is 13% of 24?     ...do      $0.13 \times 24 =$  \_\_\_\_\_



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Simplify. Round your answer to the nearest hundredth.

1. 28% of 11 \_\_\_\_\_     2. 44% of 46 \_\_\_\_\_     3. 66% of 21 \_\_\_\_\_

4. 95% of 49 \_\_\_\_\_     5. 12% of 8 \_\_\_\_\_     6. 14% of 37 \_\_\_\_\_

7. 29% of \$16.50 \_\_\_\_\_     8. 1% of 32 \_\_\_\_\_     9. 15% of 60 \_\_\_\_\_

10. 42% of 4 \_\_\_\_\_     11. 17% of 2.89 \_\_\_\_\_     12. 39% of 83.75 \_\_\_\_\_

13. 11% of 18 \_\_\_\_\_     14. 3% of 15 \_\_\_\_\_     15. 24% of 100 \_\_\_\_\_

16. 20% of 7.63 \_\_\_\_\_     17. 19% of \$21.95 \_\_\_\_\_     18. 6% of 53 \_\_\_\_\_