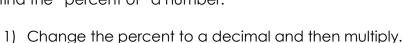
Finding the "Percent of" a Number

Percent means out of 100.

In math "of" means multiply.

To find the "percent of" a number:



- 2) **OR** Turn the percent into a fraction and then multiply.
- 100% means 1 whole. Therefore 100% of 85 is 85. That's just like changing 100% to its equivalent decimal, 1, and multiplying by 85. If you have less than 100% of a number, the solution is less than the original number.

Example:

Find 75% of 36.

OPTION 1	OPTION 2			
(Change the percent to a decimal)	(Change the percent to a fraction)			
.75 <u>x 36</u> 450 <u>2250</u> 27.00	$\frac{75}{100} \cdot \frac{36}{1} = \frac{3}{\cancel{4}} \cdot \frac{\cancel{36}}{1} = 27$			
Therefore, 75% of 36 is 27.				

TIP: Always, always, always check your answer to see if it is reasonable. (Does it make sense?) 75% is less than 100% so 27 should be less than 36. 75% is greater than 50% so 27 should be greater than half of 36, which is 18. If those things are true, you are probably on the right track!

You Try:

For each problem below, circle the ONLY reasonable answer based on what you know.

Problem	Circle the ONLY reasonable answer				
90% of 40	9	36	17	57	
25% of 72	18	54	2.5	70	
50% of 1600	56	16	1650	800	
110% of 55	1.5	115	60.5	25	
5% of 80	58	4	804	85	

Find the "percent of" for each of the problems below.

- 1) 50% of 12
- 2) 20% of 45
- 3) 15% of 100

4) 5% of 40

- 5) 150% of 92
- 6) 25% of 90

- 7) 100% of 183
- 8) Eddie's mystery number is 45% of 200. What is his mystery number?