

Review: Percent

1. Find a percentage of a number	2. A fractional part as a percent
<i>What is 60% of 300 miles?</i> Calculate 0.6×300 miles = 180 miles. Or, using mental math, first calculate 10% of 300 miles, which is 1/10 of it, or 30 miles. Then multiply 6×30 miles = 180 miles. <i>Of the 15,400 workers in a city, 22% work in a steel factory. How many workers is that?</i> Calculate: $0.22 \times 15,400 = 3,388$ workers.	<i>What percentage is 600 g of 2 kg?</i> Write the fraction $\frac{600 \text{ g}}{2,000 \text{ g}} = \frac{6}{20} = \frac{30}{100} = 30\%$. <i>One backpack costs \$18 and another \$29. What percentage is the price of the cheaper backpack of the price of the more expensive one?</i> Write the fraction $\frac{\\$18}{\\$29} = 0.6206... \approx 62\%$.
1. Change the percentage into a decimal. 2. Then multiply the number by that decimal. Alternatively, use mental math shortcuts for finding 5%, 10%, 20%, 25%, 50%, <i>etc.</i> of a number.	1. First write the fraction. Note that the two quantities in the fraction must both be in the same units: both grams, both meters, both dollars, <i>etc.</i> 2. Then convert the fraction into a decimal and finally a percent.

1. Write as percentages, fractions, and decimals.

a. _____% = $\frac{68}{100} =$ _____	b. 7% = $\frac{\text{yellow}}{\text{yellow}} =$ _____	c. _____% = $\frac{\text{yellow}}{\text{yellow}} = 0.15$
d. 120% = $\frac{\text{yellow}}{\text{yellow}} =$ _____	e. _____% = $\frac{224}{100} =$ _____	f. _____% = $\frac{\text{yellow}}{\text{yellow}} = 0.06$

2. Fill in the table. Use mental math.

percentage / number	6,100	90	57	6
1% of the number				
4% of the number				
10% of the number				
30% of the number				

3. A group of skaters has 15 girls and 5 boys.
What percentage of the skaters are girls?