Worksheet 1-1: Equivalent Ratios

1. Write two equivalent ratios for each.

a) 6:5	b) 12:1	c) 1:5	d) 25:40
e) $\frac{2}{8}$	f) $\frac{18}{10}$	g) $\frac{16}{2}$	h) $\frac{4}{7}$

2. State whether ratios in each pair are equivalent.

a) $\frac{2}{3}, \frac{4}{6}$	b) $\frac{4}{5}, \frac{8}{10}$	c) $\frac{5}{15}, \frac{1}{4}$	d) $\frac{6}{15}, \frac{8}{10}$
e) 9:5, 18:15	f) 5:10, 6:12	g) 8:6, 4:3	h) 16:12, 12:9

3. Write as a ratio in simplest form.

a) 3 minutes to 45 seconds

b) 1 kg to 500 g (use this link if you aren't sure how to change kilograms to grams http://www.metric-conversions.org/weight-conversion.htm)

c) 52 days to 1 year

d) 2 L to 750 mL (use this link if you aren't sure how to change litres to millilitres http://www.metric-conversions.org/volume-conversion.htm)

e) 48¢ to $2.88

f) 4 m to 150 cm (use this link if you aren't sure how to change metres to centimetres http://www.metric-conversions.org/measurement-conversions.htm)

4. In one year, a consumer survey company found that 85% of Canadian households reported owning one or more vehicles, while 35% owned air conditioners.
Write the ratio of households with cars to households with air conditioners as a ratio in lowest terms.

5. A food guide reported that a cup of orange juice contained 98 mg of Vitamin C and a cup of grapefruit juice contained 84 mg of Vitamin C.
Write the ratio of the mass of Vitamin C in orange juice to the mass of Vitamin C in grapefruit juice. Express your answer in simplest form.