

Ratios and Rates Hand In

1. Write an equivalent ratio for each.

a) 3:6

b) 17:4

c) 5:120

d) 10:29

2. Complete each ratio table.

a)

Days in one week	7			28	
School days in one week	5	35	100		40

b)

Number of dimes		9		6	
Number of nickels	12	27	84		105

3. Green paint is mixed with white paint in the ratio 5:3 to make the green paint lighter.

What fraction of the paint is white?

4. Last night 30 cm of snow fell in 6 h. If it continues snowing at the same rate, how long will it take for 45 cm of snow to fall?

5. A water tank holds 80 L. It is leaking at a rate of 1.5 L each minute. How long will it take before 30 L leaks out?

6. The ratio of Grade 8 students to Grade 7 students on a field trip is 7:5. In all, 84 students went on the trip. Determine the number of Grade 8 students on the trip using a ratio table.

7. Evan saves \$2 of every \$7 he earns mowing lawns. How much will even have saved when he has earned \$350.

8. The height of an object compared to the length of its shadow is constant for all objects at any given time. Where;

$$\frac{\textit{tree height}}{\textit{length of shadow}} = \frac{\textit{student height}}{\textit{length of shadow}}$$

a) If a 15m tree casts a 9m shadow, what is the height of a student who casts a 1.08m shadow?

b) If a 50m tower has a shadow 16m long, how long is the shadow of a student who is 1.5m tall?