

Rates 1

1. Explain what a rate is.

A comparison of 2 quantities with different units. eg) $\frac{\$}{h}$ $\frac{km}{h}$ $\frac{\$}{L}$ $\frac{\$}{kg}$ $\frac{beats}{min}$

2. Write each rate given below in the form of $\frac{a}{b}$.

a) An orca swims 110 km in 2h. $\frac{110km}{2h}$

b) A Canada goose flies 800 km in 12h. $\frac{800km}{12h}$

c) 45 daffodils are planted in 30min. $\frac{45 \text{ daffodils}}{30min}$

d) A blue whale eats 8t of Krill in 2 days. $\frac{8t}{2days}$

e) Gina worked 6h and made \$78.00. $\frac{\$78}{6h}$

f) David bought 12 perogies for \$5.00. $\frac{\$5.00}{12 \text{ perogies}}$

g) You payed \$30.00 for 25L of gas. $\frac{\$30}{25L}$

3. What is a unit rate?

4. Find the missing value.

of do $20 \div 5$ to get the other numerator.

a) $\frac{20}{5} = \frac{4}{1}$

b) $\frac{72}{8} = \frac{9}{1}$

c) $\frac{36}{6} = \frac{6}{1}$

d) $\frac{100}{10} = \frac{10}{1}$

e) $\frac{48}{12} = \frac{4}{1}$

f) $\frac{21}{3} = \frac{7}{1}$

5. Find the unit rate for each rate given in question #2. Round to the nearest hundredth, if necessary.

a) $\frac{110km}{2h} = \frac{55km}{h}$

d) $\frac{8t}{2d} = \frac{4t}{d}$

b) $\frac{800km}{12h} = \frac{66.67km}{h}$

e) $\frac{\$78}{6h} = \frac{\$13}{h}$

c) $\frac{45 \text{ daffodils}}{30min}$ OR $\frac{90 \text{ daff.}}{1h}$ OR 1.5 daff./min

f) $\frac{\$5.00}{12 \text{ perogies}} = \frac{\$0.42}{perogy}$

g) $\frac{\$30}{25L} = \frac{\$1.20}{L}$