

Express each rate as a unit rate. Round to the nearest tenth or to the nearest cent, if necessary.

1.) \$25.97 for 8 boxes

$$\frac{25.97}{8} \div 8 = \boxed{\frac{3.25}{1 \text{ box}}}$$

$$\begin{array}{r} 3.246 \\ 8 \overline{) 25.970} \\ \underline{-24} \\ 19 \\ \underline{-16} \\ 37 \\ \underline{-32} \\ 50 \\ \underline{-40} \\ 100 \\ \underline{-80} \\ 20 \end{array}$$

2.) 400 meters in 5 minutes

$$\frac{400 \text{ m}}{5 \text{ min}} \div 5 = \boxed{\frac{80 \text{ m}}{1 \text{ min}}}$$

$$\begin{array}{r} 80 \\ 5 \overline{) 400} \\ \underline{-40} \\ 000 \\ \underline{-000} \\ 000 \\ \underline{-000} \\ 000 \\ \underline{-000} \\ 000 \end{array}$$

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3.) \$175 for 4 concert tickets

$$\frac{175}{4 \text{ tickets}} \div 4 = \boxed{\frac{43.75}{1 \text{ ticket}}}$$

$$\begin{array}{r} 43.75 \\ 4 \overline{) 175.00} \\ \underline{16} \\ 15 \\ \underline{12} \\ 30 \\ \underline{28} \\ 200 \\ \underline{200} \\ 000 \end{array}$$

4.) 125 miles in 200 minutes

$$\frac{125 \text{ mi}}{200 \text{ min}} \div 200 = \boxed{\frac{0.6 \text{ miles}}{1 \text{ min}}}$$

$$\begin{array}{r} .62 \\ 200 \overline{) 125.00} \\ \underline{120} \\ 500 \\ \underline{400} \\ 1000 \\ \underline{1000} \\ 000 \end{array}$$

5.) An eight pack of juice boxes costs \$4.79, and a twelve pack of juice boxes costs \$6.59. Which is a better buy?

$$\frac{84.79}{8 \text{ boxes}} \div 8 = \frac{80.60}{1 \text{ box}}$$

$$\begin{array}{r} 0.598 \\ 8 \overline{) 46790} \\ \underline{40} \\ 79 \\ \underline{72} \\ 70 \\ \underline{64} \\ 6 \end{array}$$

* BETTER BUY!!

$$\frac{*86.59}{12 \text{ boxes}} \div 12 = \frac{80.55}{1 \text{ box}}$$

$$\begin{array}{r} 0.549 \\ 12 \overline{) 6590} \\ \underline{60} \\ 59 \\ \underline{48} \\ 110 \\ \underline{108} \\ 20 \\ \underline{18} \\ 20 \\ \underline{18} \\ 20 \\ \vdots \end{array}$$

6.) A bakery can make 195 doughnuts in 3 hours. At this rate, how many doughnuts can the bakery make in 8 hours?

$$\frac{195 \text{ doughnuts}}{3 \text{ hours}} \div 3 = \frac{65 \text{ doughnuts}}{1 \text{ hr}}$$

$$\begin{array}{r} 65 \\ 3 \overline{) 195} \\ \underline{18} \\ 15 \\ \underline{15} \\ 0 \end{array}$$

$$65 \cdot 8 = 520 \text{ doughnuts}$$

Simplify.

$$7.) \frac{6}{\frac{2}{5}} = \frac{6}{1} \div \frac{2}{5}$$

$$\frac{15}{1} = 15$$

$$8.) \frac{\frac{5}{3}}{10} = \frac{5}{3} \div \frac{10}{1}$$

$$\frac{1}{6}$$

9.) Noreen can walk $1\frac{1}{10}$ miles in $\frac{1}{3}$ hour. Find her average speed in miles per hour.

$$\frac{1\frac{1}{10} \text{ miles}}{\frac{1}{3} \text{ hr}} = \frac{11/10}{1/3} = \frac{11}{10} \div \frac{1}{3}$$

$$\frac{11}{10} \cdot \frac{3}{1} = \frac{33}{10}$$

$\frac{33}{10}$ or $3\frac{3}{10}$ miles per hour