

Practice Quiz for Ratios and Unit Rates

Simplify each ratio.

1. 50:30

2. 25:35

3. 24:40

Find the unit rate for each. Remember, the units have to be correct to get credit!

4. 375 pages in 3 days

5. 80 inches in 5 hours

6. \$240 for 4 gifts

Solve each problem.

7. At the market you can buy 5 bags of apples for \$23.60. At the orchard you can get 7 bags of apples for \$32.76. Which is the better deal?

8. The book fair had a sale where 6 books were \$20.46. If you wanted to buy 7 books, how much money would you need?

Answer Key - Practice Quiz for Ratios and Unit Rates

Simplify each ratio.

1. 50:30

$$5:3$$

$$\frac{50 \div 10}{30 \div 10} = \frac{5}{3}$$

2. 25:35

$$5:7$$

$$\frac{25 \div 5}{35 \div 5} = \frac{5}{7}$$

3. 24:40

$$3:5$$

$$\frac{24 \div 4}{40 \div 4} = \frac{6 \div 2}{10 \div 2} = \frac{3}{5}$$

Find the unit rate for each. Remember, the units have to be correct to get credit!

4. 375 pages in 3 days

5. 80 inches in 5 hours

6. \$240 for 4 gifts

$$\begin{array}{r} 125 \\ 3 \overline{)375} \\ \underline{30} \\ 07 \\ \underline{60} \\ 15 \\ \underline{15} \\ 0 \end{array}$$

125 pages per day
or
 $\frac{125 \text{ pages}}{1 \text{ day}}$

$$\begin{array}{r} 16 \\ 5 \overline{)80} \\ \underline{50} \\ 30 \\ \underline{30} \\ 0 \end{array}$$

16 in. per hr.
or
 $\frac{16 \text{ in.}}{1 \text{ hour}}$

$$\begin{array}{r} 60 \\ 4 \overline{)240} \\ \underline{240} \\ 0 \end{array}$$

\$60 per gift
or
 $\frac{\$60}{1 \text{ gift}}$

Solve each problem.

7. At the market you can buy 5 bags of apples for \$23.60. At the orchard you can get 7 bags of apples for \$32.76. Which is the better deal?

Market

$$\begin{array}{r} \$4.72 \\ 5 \overline{)23.60} \\ \underline{20} \\ 36 \\ \underline{35} \\ 10 \\ \underline{10} \\ 0 \end{array}$$

Orchard

$$\begin{array}{r} \$4.68 \\ 7 \overline{)32.76} \\ \underline{28} \\ 47 \\ \underline{42} \\ 56 \\ \underline{56} \\ 0 \end{array}$$

The orchard is the better deal. Each bag is only \$4.68.

8. The book fair had a sale where 6 books were \$20.46. If you wanted to buy 7 books, how much money would you need?

Find cost of 1 book: \$3.41

$$\begin{array}{r} \$3.41 \\ 6 \overline{)20.46} \\ \underline{18} \\ 24 \\ \underline{24} \\ 06 \\ \underline{6} \\ 0 \end{array}$$

For 7 books, multiply:

$$\begin{array}{r} 3.41 \\ \times 7 \\ \hline 23.87 \end{array}$$

You will need \$23.87 for 7 books.