

5.1–5.4 Quiz

Write the ratio. Explain what the ratio means. (Section 5.1)

1. tulips to lilies



2. crayons to markers



Find the missing values in the ratio table. Then write the equivalent ratios. (Section 5.2)

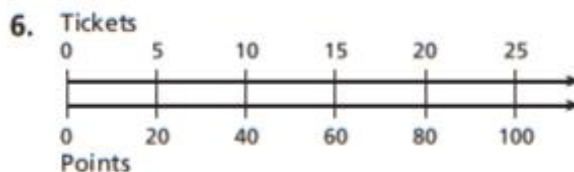
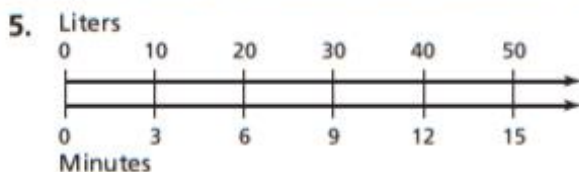
3.

Shoes	7		49
Boots	2	8	

4.

Trains	3	12	
Airplanes	8		48

Write a rate that represents the situation. (Section 5.3)



Write a unit rate for the situation. (Section 5.3)

7. 12 touchdowns in 6 games

8. 15 text messages in 5 minutes

9. 80 entries in 4 contests

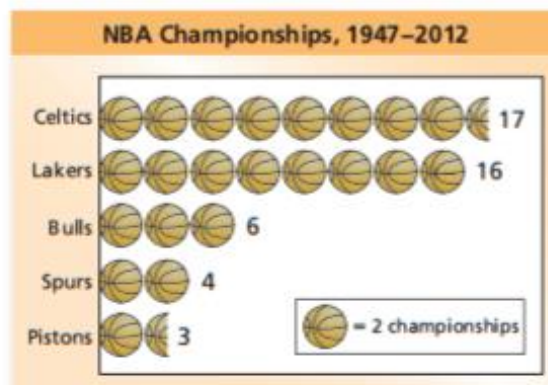
10. 75 questions in 25 minutes

11. **DOWNLOADS** Three album downloads cost \$36. How much do 5 album downloads cost? (Section 5.3)

12. **SHAMPOO** You can buy 20 fluid ounces of shampoo for \$4.40 or 24 fluid ounces for \$4.80. Which is the better buy? Explain. (Section 5.4)

13. **NBA CHAMPIONSHIPS** Write each ratio. Explain what the ratio means. (Section 5.1)

- Celtics championships to Lakers championships
- Pistons championships to Spurs championships
- Bulls championships to Lakers championships



13a) 17:16

For every 17 celtics wins there are 16 lakers wins

13b) 3:4

For every 3 pistons wins there are 4 spurs wins

13c) 6:16

For every 6 bulls wins there are 16 lakers wins

7.) $\frac{2 \text{ touchdowns}}{1 \text{ game}}$

8.) $\frac{5 \text{ text messages}}{1 \text{ minute}}$

9.) $\frac{20 \text{ entries}}{1 \text{ contest}}$

10.) $\frac{3 \text{ questions}}{1 \text{ minute}}$

11.) $\frac{36}{3} = \frac{?}{5}$

$\begin{array}{r} 12 \\ 3 \overline{)36} \end{array}$

60 dollars

$\begin{array}{r} 12 \cancel{0} 7 \\ \cancel{0} 5 \\ \hline \end{array}$

12.) $\frac{\$4.40}{20}$

$\begin{array}{r} 20 \\ \cdot 22 \\ \hline 20 \overline{)4.40} \\ \underline{40} \\ 40 \\ \underline{40} \\ 0 \end{array}$

$\frac{\$0.22}{201}$

or $\frac{\$4.80}{24}$

$\begin{array}{r} 24 \overline{)4.80} \\ \underline{48} \\ 0 \end{array}$

$\frac{\$0.20}{201}$

5.) $\frac{0 \text{ Liters}}{0 \text{ minutes}}$

$\frac{10 \text{ Liters}}{3 \text{ min}}$

$\frac{20 \text{ Liters}}{6 \text{ min}}$

$\frac{30 \text{ Liters}}{9 \text{ min}}$

$\frac{40 \text{ Liters}}{12 \text{ min}}$

$\frac{50 \text{ Liters}}{15 \text{ min}}$

6.) $\frac{0 \text{ tickets}}{0 \text{ points}}$

$\frac{5 \text{ tickets}}{20 \text{ pts}}$

$\frac{10 \text{ tickets}}{40 \text{ pts}}$

$\frac{15 \text{ tickets}}{60 \text{ pts}}$

$\frac{20 \text{ tickets}}{80 \text{ pts}}$

$\frac{25 \text{ tickets}}{100 \text{ pts}}$

1.) $3:2$

2.) $8:4$

3.) $\frac{7}{2} = \frac{14}{4} = \frac{28}{8}$

$\frac{7}{2} = \frac{14}{4} = \frac{28}{8}$

7	28	49
2	8	14

4.) $\frac{3}{8} = \frac{12}{32}$

$\frac{3}{8} = \frac{18}{48}$

3	12	18
8	32	48