

Chapter Quiz

$$\frac{2}{9} = 0.\bar{2} \quad \frac{5}{9} = 0.\bar{5} \quad \frac{8}{9} = 0.\bar{8} \quad \frac{3}{9} = \frac{1}{3} = 0.\bar{3} \quad \frac{6}{9} = \frac{2}{3} = 0.\bar{6}$$

Write each fraction or mixed number as a decimal. Use bar notation if the decimal is a repeating decimal.

1. $2\frac{5}{8}$

$$\begin{array}{r} 0.625 \\ 8 \overline{) 5.0} \\ \underline{48} \\ 20 \\ \underline{16} \\ 40 \\ \underline{40} \\ 0 \end{array}$$

2. $\frac{7}{9}$

$$\begin{array}{r} 0.7\bar{7} \\ 9 \overline{) 7.0} \\ \underline{63} \\ 70 \\ \underline{63} \\ 70 \end{array}$$

3. $\frac{3}{4}$

$$\begin{array}{r} 0.75 \\ 4 \overline{) 3.0} \\ \underline{28} \\ 20 \\ \underline{20} \\ 0 \end{array}$$

1. 2.625

2. $0.\bar{7}$

3. 0.75

$0.777777\ldots$

$\frac{1}{4} = 0.25$

$\frac{3}{4} = 0.75$

Replace each $\bullet$ with $<$, $>$, or $=$ to make a true sentence.

4. $\frac{24}{30} \bullet \frac{45}{50}$

$$\frac{24}{30} \div \frac{6}{6} = \frac{4}{5} \quad \frac{45}{50} \div \frac{5}{5} = \frac{9}{10} \quad \frac{4}{5} < \frac{9}{10}$$

5. $\frac{6}{17} \bullet \frac{18}{51}$

$$\frac{45}{50} \div \frac{5}{5} = \frac{9}{10} \quad \frac{8}{10} < \frac{9}{10}$$

4. $<$

5. $=$

Add or subtract. Write in simplest form.

6. $\frac{5}{7} + \frac{3}{7} = \frac{5+3}{7} = \frac{8}{7} = 1\frac{1}{7}$

7. $4\frac{7}{12} + \frac{3}{4}$

$$\frac{7}{12} \cdot \frac{3}{3} = \frac{7}{12} \quad \frac{3}{4} \cdot \frac{3}{3} = \frac{9}{12}$$

$$4\frac{7}{12} + \frac{9}{12} = 4\frac{7+9}{12} = 4\frac{16}{12} = 5\frac{4}{12} = 5\frac{1}{3}$$

8. $-\frac{3}{5} - \frac{1}{5}$

$$\frac{-3-1}{5} = \frac{-4}{5}$$

9. $\frac{5}{8} - \frac{3}{16}$

$$\frac{5}{8} \cdot \frac{2}{2} = \frac{10}{16} \quad \frac{3}{16} \cdot \frac{1}{1} = \frac{3}{16}$$

$$\frac{10-3}{16} = \frac{7}{16}$$

6. $1\frac{1}{7}$

7. $5\frac{1}{3}$

8. $-\frac{4}{5}$

9. $\frac{7}{16}$

10. **HOMEWORK** Honon spent $3\frac{1}{4}$ hours on homework yesterday while Sequoia spent $2\frac{5}{6}$ hours on homework. How much more time did Honon spend on homework than Sequoia?

$$3\frac{1}{4} - 2\frac{5}{6}$$

$$3\frac{3}{12} - 2\frac{10}{12}$$

$$3\frac{3}{12} = 2\frac{12}{12} + \frac{3}{12} = 2\frac{15}{12}$$

$$2\frac{15}{12} - 2\frac{10}{12} = 0\frac{5}{12}$$

10. $\frac{5}{12}$

$$\begin{array}{r} 3 \\ \downarrow \\ 2 \\ \downarrow \\ 2 + \frac{12}{12} \end{array}$$