Chapter Review

Review Key Vocabulary

reciprocals, p. 64

Review Examples and Exercises

Multiplying Fractions (pp. 54-61)

a. Find
$$\frac{1}{4} \times \frac{3}{5}$$
.

$$\frac{1}{4} \times \frac{3}{5} = \frac{1 \times 3}{4 \times 5} = \frac{3}{20}$$

Multiply the numerators and the denominators.

b. Find
$$\frac{3}{5} \times 1\frac{1}{8}$$
.

$$\frac{3}{5} \times 1\frac{1}{8} = \frac{3}{5} \times \frac{9}{8}$$

$$\frac{3}{5} \times 1\frac{1}{8} = \frac{3}{5} \times \frac{9}{8}$$
 Write $1\frac{1}{8}$ as the improper fraction $\frac{9}{8}$.

$$=\frac{3\times 9}{5\times 8}=\frac{27}{40}$$

 $= \frac{3 \times 9}{5 \times 8} = \frac{27}{40}$ Multiply the numerators and the denominators.

Exercises

Multiply. Write the answer in simplest form.

Show your work on your grid. Remember to change mixed numbers to improper fractions before multiplying.

1.
$$\frac{1}{8} \times \frac{5}{7}$$

2.
$$\frac{3}{5} \times \frac{1}{2}$$

5.
$$2\frac{2}{3} \times \frac{4}{5}$$

8.
$$2\frac{3}{10} \times 5\frac{1}{3}$$

2.2 Dividing Fractions (pp. 62–69)

Find
$$\frac{3}{7} \div \frac{5}{8}$$
.

$$\frac{3}{7} \div \frac{5}{8} = \frac{3}{7} \times \frac{8}{5}$$

 $\frac{3}{7} \div \frac{5}{8} = \frac{3}{7} \times \frac{8}{5}$ Multiply by the reciprocal of $\frac{5}{8}$, which is $\frac{8}{5}$.

 $= \frac{3 \times 8}{7 \times 5} = \frac{24}{35}$ Multiply fractions and simplify.

Exercises

Divide. Write the answer in simplest form.

Remember: Keep, Change, Flip

9.
$$\frac{1}{9} \div \frac{2}{5}$$

10.
$$\frac{3}{4} \div \frac{5}{6}$$

11.
$$5 \div \frac{1}{3}$$

12.
$$\frac{8}{9} \div \frac{3}{10}$$

2,3 Dividing Mixed Numbers (pp. 70–75)

Find
$$3\frac{3}{4} \div 1\frac{1}{2}$$
.

 $3\frac{3}{4} \div 1\frac{1}{2} = \frac{15}{4} \div \frac{3}{2}$ Write each mixed number as an improper fraction.

 $= \frac{15}{4} \times \frac{2}{3}$ Multiply by the reciprocal of $\frac{3}{2}$, which is $\frac{2}{3}$.

 $= \frac{5}{4} \times \frac{2}{3}$ Multiply fractions. Divide out common factors.

 $= \frac{5}{2}$, or $2\frac{1}{2}$ Simplify.

Exercises

Divide. Write the answer in simplest form.

Remember to change mixed numbers to improper fractions before doing keep, change, flip.

13.
$$1\frac{2}{5} \div \frac{4}{7}$$

14.
$$2\frac{3}{8} \div \frac{3}{5}$$

15.
$$4\frac{1}{8} \div 2\frac{1}{4}$$

16.
$$5\frac{5}{8} \div 1\frac{2}{9}$$

17. PANCAKES A box contains 10 cups of pancake mix. You use $\frac{2}{3}$ cup each time you make pancakes. How many times can you make pancakes?

b. Subtract 5.467 - 2.736.

Exercises

Add or subtract. Show your work on your grid. Remember to line up your decimal points.

Find 7.5×5.3 .

$$\begin{array}{c}
7.5 & \longleftarrow & 1 \text{ decimal place} \\
\times 5.3 & \longleftarrow & + 1 \text{ decimal place} \\
\hline
2 2 5 & & \\
+ 3 7 5 & \longleftarrow & 2 \text{ decimal places}
\end{array}$$

So,
$$7.5 \times 5.3 = 39.75$$
.

Exercises

Multiply. Use estimation to check your answer.

22.
$$5.3 \times 8$$

Estimate:

24.
$$4.68 \times 3$$

_____ Estimate: _____

25.
$$9.475 \times 8.03$$

_____ Estimate: _____

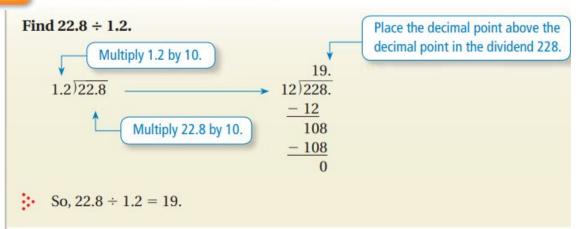
26.
$$0.27 \times 4.42$$

_____ Estimate: _____



28. AREA Find the area of the computer screen.

2.6 Dividing Decimals (pp. 92–99)



Exercises

Divide. Use estimation to check your answer.

Show your work on your grid.

29. 6.8 ÷ 4 Estimate:

30. $13.2 \div 6 + 4$

Estimate:

33.	2.5)0.125	Estimate:
34.	3.9)22.23	Estimate: