

2 Chapter Review



Review Key Vocabulary

reciprocals, p. 64

Review Examples and Exercises

2.1 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 $\frac{3}{5} \times 1\frac{1}{8}$.

$$\begin{aligned}\frac{3}{5} \times 1\frac{1}{8} &= \frac{3}{5} \times \frac{9}{8} \\ &= \frac{3 \times 9}{5 \times 8} = \frac{27}{40}\end{aligned}$$

Write $1\frac{1}{8}$ as the improper fraction $\frac{9}{8}$.

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

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

$$= \frac{3 \times 8}{7 \times 5} = \frac{24}{35}$$

Multiply by the reciprocal of $\frac{5}{8}$, which is $\frac{8}{5}$.

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 $\frac{2}{3}$.

$$= \frac{\overset{5}{\cancel{15}} \times \overset{1}{\cancel{2}}}{\underset{2}{\cancel{4}} \times \underset{1}{\cancel{3}}}$$

Multiply fractions. Divide out common factors.

$$= \frac{5}{2}, \text{ or } 2\frac{1}{2}$$

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?

2.4**Adding and Subtracting Decimals** (pp. 78–83)

a. Add $7.36 + 2.22$.

$$\begin{array}{r} 7.36 \\ + 2.22 \\ \hline 9.58 \end{array}$$

Line up the decimal points.

Add as you would with whole numbers.

b. Subtract $5.467 - 2.736$.

$$\begin{array}{r} 4\overset{14}{\cancel{5}}.467 \\ - 2.736 \\ \hline 2.731 \end{array}$$

Line up the decimal points.

Subtract as you would with whole numbers.

Exercises

Add or subtract.

points.

Show your work on your grid. Remember to line up your decimal

18. $3.78 + 8.94$ _____

19. $19.89 + 4.372$ _____

20. $7.638 - 2.365$ _____

21. $14.21 - 4.103$ _____

2.5 Multiplying Decimals (pp. 84–91)

Find 7.5×5.3 .

$$\begin{array}{r} 7.5 \leftarrow 1 \text{ decimal place} \\ \times 5.3 \leftarrow + 1 \text{ decimal place} \\ \hline 225 \\ + 375 \\ \hline 39.75 \leftarrow 2 \text{ decimal places} \end{array}$$

So, $7.5 \times 5.3 = 39.75$.

Exercises

Multiply. Use estimation to check your answer.

22. 5.3×8 _____ Estimate: _____

24. 4.68×3 _____ Estimate: _____

25. 9.475×8.03 _____ Estimate: _____

26. 0.27×4.42 _____ Estimate: _____



28. **AREA** Find the area of the computer screen.

2.6 Dividing Decimals (pp. 92–99)

Find $22.8 \div 1.2$.

Multiply 1.2 by 10.

$$1.2 \overline{)22.8}$$

Multiply 22.8 by 10.

Place the decimal point above the decimal point in the dividend 228.

$$\begin{array}{r} 19. \\ 12 \overline{)228.} \\ \underline{-12} \\ 108 \\ \underline{-108} \\ 0 \end{array}$$

So, $22.8 \div 1.2 = 19$.

Exercises

Divide. Use estimation to check your answer.

Show your work on your grid.

29. $6.8 \div 4$

Estimate: _____

30. $13.2 \div 6 + 4$

Estimate: _____

33. $2.5 \overline{)0.125}$

Estimate: _____

34. $3.9 \overline{)22.23}$

Estimate: _____

