Multiply Mixed Numbers

Name _____

Date _____

Multiply: $2\frac{1}{2} \times 2\frac{3}{5}$

$$2\frac{1}{2} \times 2\frac{3}{5} = \frac{5}{2} \times \frac{13}{5}$$

$$= \frac{\overset{1}{\cancel{5}} \times 13}{2 \times \underset{1}{\cancel{5}}} = \frac{1 \times 13}{2 \times 1}$$

$$= \frac{13}{2} = 6\frac{1}{2}$$

Multiply: $6 \times 2\frac{1}{8}$

$$6 \times 2\frac{1}{8} = \frac{6}{1} \times \frac{17}{8}$$

$$= \frac{\overset{3}{\cancel{6}} \times 17}{1 \times \underset{4}{\cancel{8}}} = \frac{3 \times 17}{1 \times 4}$$

$$= \frac{51}{4} = 12\frac{3}{4}$$

Multiply.

1. $1\frac{7}{8} \times 18 \ =$ _____

2. $3\frac{3}{4} \times 4\frac{2}{3} \ =$ _____

3. $7\frac{3}{10} \times 2\frac{1}{3} \ =$ _____

4. $5\frac{1}{2} \times 2\frac{1}{2} \ =$ _____

5. $3\frac{3}{8} \times 4\frac{1}{4} \ =$ _____

6. $4\frac{2}{5} \times 25 \ =$ _____

7. $2\frac{1}{3} \times 3 \ =$ _____

8. $5\frac{1}{2} \times 5 \ =$ _____

9. $4 \times 1\frac{1}{4} \ =$ _____

10. $6 \times 1\frac{1}{5} \ =$ _____

11. $2\frac{1}{3} \times 4\frac{2}{3} \ =$ _____

12. $3\frac{1}{5} \times 1\frac{7}{8} \ =$ _____

Compare. Write <, =, or >.

13. $1\frac{3}{5} \times 10$ ——— $1\frac{1}{2} \times 12$

14. $7 \times 2\frac{3}{7}$ ——— $3\frac{1}{8} \times 4$

15. $2\frac{1}{5} \times 1\frac{2}{3}$ ——— $1\frac{1}{4} \times 3\frac{1}{5}$

16. $4\frac{2}{3} \times 3\frac{3}{4}$ ——— $7\frac{1}{2} \times 2\frac{1}{3}$

Problem Solving

17. Midori jogs on weekdays. If she jogs $3\frac{1}{10}$ miles on each of the 5 days, what is her total distance per week?
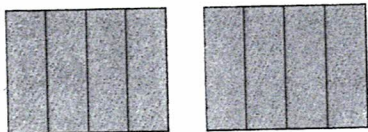
_____

18. Emil jumped $4\frac{1}{2}$ ft in the high jump event at a track meet. Bill jumped $\frac{8}{9}$ as high as Emil. How high did Bill jump?

_____

Use with Lesson 6-7, pages 210–211 in the Student Book.
Then go to Lesson 6-7A, pages 197–198 in this Workbook.
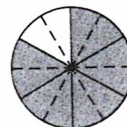
69

Division of Fractions

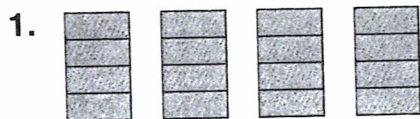Name _____

Date _____

How many fourths in 2?

$2 \div \frac{1}{4} = 8$

How many twelfths in $\frac{5}{6}$?

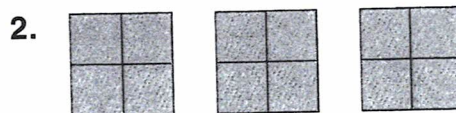$\frac{5}{6} \div \frac{1}{12} = 10$
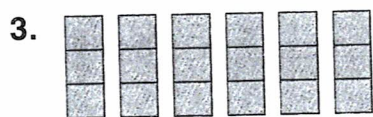
Use each diagram to find the quotient.

1.

How many fourths in 4?

$4 \div \frac{1}{4} = $ _____

2.

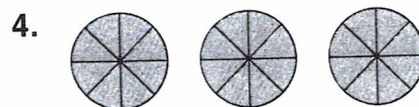How many fourths in 3?

$3 \div \frac{1}{4} = $ _____

3.

How many thirds in 6?

$6 \div \frac{1}{3} = $ _____

4.

How many eighths in 3?

$3 \div \frac{1}{8} = $ _____

5.
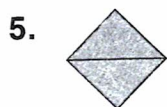
How many halves in 1?

$1 \div \frac{1}{2} = $ _____

6.
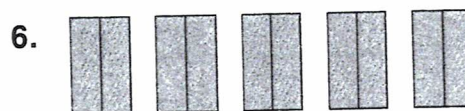
How many halves in 5?

$5 \div \frac{1}{2} = $ _____

Write a division sentence for each diagram.

7.

_____

8.

_____

9.

_____

10.

_____

Use with Lesson 6-8, pages 212–213 in the Student Book.
Then go to Lesson 6-9, pages 214–215 in the Student Book.