

Reteaching 6-2

Multiplying Mixed Numbers

Example 1: Multiply:

$$2\frac{1}{7} \times 2\frac{2}{5}$$

① Change to improper fractions.

$$\frac{15}{7} \times \frac{12}{5}$$

② Simplify.

$$^3\frac{15}{7} \times \frac{12}{\cancel{5}_1}$$

③ Multiply.

$$\frac{36}{7} \leftarrow \frac{3 \times 12}{\leftarrow 7 \times 1}$$

④ Simplify.

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

$$2\frac{1}{7} \times 2\frac{2}{5} = 5\frac{1}{7}$$

Example 2: Multiply: $\frac{2}{3} \times 5\frac{1}{4}$

$$\frac{2}{3} \times \frac{21}{4}$$

$$\frac{\cancel{2}^1}{\cancel{3}_1} \times \frac{\cancel{21}^7}{\cancel{4}_2}$$

$$\frac{7}{2} \leftarrow \frac{1 \times 7}{\leftarrow 1 \times 2}$$

$$3\frac{1}{2}$$

$$\frac{2}{3} \times 5\frac{1}{4} = 3\frac{1}{2}$$

Find each product.

1. $1\frac{1}{4} \times 2\frac{2}{3}$

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

3. $3\frac{1}{7} \times 2\frac{4}{5}$

4. $\frac{1}{5} \times 2\frac{7}{9}$

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

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

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

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

9. $1\frac{5}{6} \times 2\frac{1}{4}$

10. $5\frac{1}{4} \times 2\frac{2}{7}$

11. $\frac{1}{4} \times 1\frac{3}{5}$

12. $\frac{1}{7} \times 1\frac{3}{4}$

13. $3\frac{1}{3} \times 3\frac{3}{10}$

14. $1\frac{2}{3} \times 3\frac{1}{2}$

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

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

17. $3\frac{2}{5} \times 2\frac{1}{2}$

18. $1\frac{2}{3} \times 7\frac{1}{2}$

19. $1\frac{3}{10} \times 2\frac{6}{7}$

20. $\frac{3}{16} \times 1\frac{1}{7}$

Solve.

21. Estimate the area of a window pane that has dimensions $6\frac{1}{8}$ by $11\frac{1}{4}$ inches.

22. A hamster is $2\frac{1}{2}$ inches long. A rabbit is $3\frac{1}{2}$ times as long as the hamster. How long is the rabbit?

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