

# Multiplying Mixed Numbers

Multiply mixed numbers by rewriting the mixed numbers as improper fractions. Then, multiply the numerators and denominators.

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

Rewrite as improper fractions.

$$\frac{15}{7} \times \frac{8}{3}$$

Cancel if possible. Multiply.

$$\frac{\overset{5}{\cancel{15}}}{7} \times \frac{8}{\underset{1}{\cancel{3}}} = \frac{40}{7}$$

Write the improper fraction as a mixed number.

$$\frac{40}{7} = 5\frac{5}{7}$$

Multiply. Reduce your answer to lowest terms.

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

2.  $6\frac{3}{7} \times 7\frac{2}{3} =$

3.  $12\frac{1}{3} \times 5\frac{1}{4} =$

4.  $1\frac{2}{3} \times 2\frac{8}{10} =$

5.  $4\frac{2}{6} \times 10\frac{1}{2} =$

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

7.  $2\frac{2}{3} \times 4\frac{2}{3} =$

8.  $3\frac{6}{7} \times 8\frac{3}{4} =$

9.  $1\frac{3}{4} \times 9\frac{1}{3} =$

10.  $2\frac{7}{8} \times 5\frac{2}{3} =$

11.  $16\frac{1}{3} \times 4\frac{4}{5} =$

12.  $2\frac{1}{6} \times 3\frac{3}{5} =$

13.  $4\frac{1}{5} \times 4\frac{2}{3} =$

14.  $6\frac{8}{9} \times 3\frac{4}{6} =$

15.  $1\frac{3}{6} \times 5\frac{3}{10} =$

16.  $5\frac{1}{2} \times 6\frac{1}{3} =$

17.  $6\frac{2}{3} \times 8\frac{2}{3} =$

18.  $10\frac{1}{2} \times 5 =$

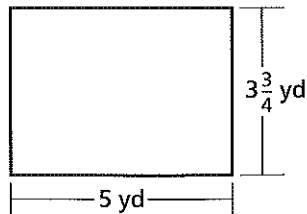
19.  $12\frac{1}{3} \times 4\frac{1}{2} =$

20.  $15\frac{2}{3} \times 4\frac{1}{2} =$

21.  $25\frac{1}{2} \times 2\frac{2}{3} =$

**Directions:** Choose the one best answer to each item. Circle the number of the correct answer.

**Items 22 and 23** refer to the following figure.



- 22.** The rectangle shows the dimensions of Pedro's garden. What is the area of Pedro's garden? (Area =  $l \times w$ )

- (1) 75 square yards
- (2) 16 square yards
- (3)  $18\frac{3}{4}$  square yards
- (4) 20 square yards
- (5) 12 square yards

- 23.** If Pedro wants to use  $\frac{1}{2}$  of his garden's area for flowers, how many square yards of the garden will have flowers?

- (1)  $9\frac{3}{8}$  square yards
- (2) 9 square yards
- (3) 9 yards
- (4)  $9\frac{3}{8}$  yards
- (5)  $8\frac{3}{8}$  square yards

- 24.** Rosie wants to find the area of a square tabletop. Each side is  $20\frac{1}{2}$  inches. What is the area of the tabletop?

- (1) 41 square inches
- (2)  $420\frac{1}{4}$  square inches
- (3) 451 square inches
- (4)  $112\frac{3}{4}$  square inches
- (5) 42 square inches

- 25.** Sam is installing floor tile. He computes the area of a room by multiplying the width of  $18\frac{1}{2}$  feet by the length of  $9\frac{1}{2}$  feet. What is the area of the room?

- (1)  $174\frac{3}{4}$  square feet
- (2)  $175\frac{3}{4}$  square feet
- (3) 37 square feet
- (4) 148 square feet
- (5) 19 square feet

- 26.** A truck uses  $2\frac{1}{2}$  gallons of gas per hour. How much gas would this truck use in  $1\frac{3}{4}$  hours?

- (1) 4 gallons
- (2)  $4\frac{1}{2}$  gallons
- (3)  $4\frac{3}{8}$  gallons
- (4) 5 gallons
- (5)  $4\frac{1}{4}$  gallons

- 27.** A merchant in Venice bought roses wholesale for  $1\frac{1}{2}$  lire each. He sold them for  $2\frac{1}{2}$  times the price. What is the price in lire for one rose?

- (1)  $3\frac{1}{2}$  lire
- (2) 3 lire
- (3)  $3\frac{3}{4}$  lire
- (4)  $4\frac{1}{4}$  lire
- (5) none of the above

- 28.** For customers with large orders, the merchant sells them for only  $1\frac{1}{2}$  times the wholesale price. How much does he charge for a discounted rose?

- (1)  $1\frac{1}{2}$  lire
- (2)  $2\frac{1}{4}$  lire
- (3)  $2\frac{1}{2}$  lire
- (4) 3 lire
- (5) none of the above