

MULTIPLYING MIXED NUMBERS

REMEMBER:

Change the mixed number to an improper fraction. Then multiply.

EXAMPLES

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

$$\begin{array}{c} \downarrow \quad \downarrow \\ \frac{9}{4} \times \frac{1}{2} = \frac{9}{8} = 1\frac{1}{8} \end{array}$$

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

$$\begin{array}{c} \downarrow \quad \downarrow \\ \frac{3}{4} \times \frac{16}{3} = \frac{3}{\cancel{4}^2} \times \frac{\cancel{16}^4}{\cancel{3}^1} = \frac{4}{1} = 4 \end{array}$$

Multiply. Then simplify your answer.

1. $3\frac{1}{7} \times \frac{3}{5} = \underline{\hspace{2cm}}$

2. $\frac{1}{6} \times 5\frac{2}{3} = \underline{\hspace{2cm}}$

3. $5\frac{3}{4} \times \frac{1}{3} = \underline{\hspace{2cm}}$

4. $\frac{5}{8} \times 1\frac{3}{4} = \underline{\hspace{2cm}}$

5. $\frac{2}{5} \times 8\frac{2}{5} = \underline{\hspace{2cm}}$

6. $11\frac{1}{3} \times \frac{1}{5} = \underline{\hspace{2cm}}$

7. $\frac{3}{7} \times 9\frac{1}{2} = \underline{\hspace{2cm}}$

8. $2\frac{3}{7} \times \frac{3}{4} = \underline{\hspace{2cm}}$

9. $6\frac{1}{3} \times \frac{6}{7} = \underline{\hspace{2cm}}$

10. $\frac{8}{9} \times 6\frac{3}{5} = \underline{\hspace{2cm}}$

11. $5\frac{1}{2} \times \frac{6}{7} = \underline{\hspace{2cm}}$

12. $\frac{5}{6} \times 3\frac{7}{10} = \underline{\hspace{2cm}}$

13. $\frac{4}{9} \times 7\frac{5}{8} = \underline{\hspace{2cm}}$

14. $9\frac{2}{7} \times \frac{6}{13} = \underline{\hspace{2cm}}$

15. $\frac{7}{11} \times 6\frac{7}{8} = \underline{\hspace{2cm}}$

16. $9\frac{1}{5} \times \frac{8}{23} = \underline{\hspace{2cm}}$

17. $9\frac{1}{5} \times \frac{5}{8} = \underline{\hspace{2cm}}$

18. $\frac{7}{9} \times 1\frac{2}{7} = \underline{\hspace{2cm}}$

19. $3\frac{3}{8} \times \frac{4}{9} = \underline{\hspace{2cm}}$

20. $\frac{6}{5} \times 4\frac{3}{18} = \underline{\hspace{2cm}}$

21. $\frac{8}{9} \times 8\frac{1}{4} = \underline{\hspace{2cm}}$

22. $7\frac{1}{5} \times \frac{5}{9} = \underline{\hspace{2cm}}$

23. $\frac{12}{13} \times 4\frac{7}{8} = \underline{\hspace{2cm}}$

24. $12\frac{1}{2} \times \frac{8}{15} = \underline{\hspace{2cm}}$

25. Anita likes to jog around the track at her school. The track is $\frac{1}{4}$ mile long. Yesterday she jogged around the track $3\frac{1}{2}$ times. How far did she run?

Answer: _____

26. The pipe leaked $5\frac{1}{2}$ quarts of water an hour for $7\frac{1}{4}$ hours. How much water leaked in all?

Answer: _____

MULTIPLYING MIXED NUMBERS

REMEMBER:

Before you multiply a mixed number by a whole number, convert the mixed number to an improper fraction.

EXAMPLES

$$\begin{array}{c} 2\frac{1}{2} \times 2 \\ \downarrow \quad \downarrow \\ \frac{5}{2} \times \frac{2}{1} = \frac{10}{2} = 5 \end{array}$$

$$\begin{array}{c} 3\frac{3}{4} \times 4 \\ \downarrow \quad \downarrow \\ \frac{15}{4} \times \frac{4}{1} = \frac{60}{4} = \frac{15}{1} = 15 \end{array}$$

$$\begin{array}{c} 1\frac{1}{2} \times 2\frac{2}{3} \\ \downarrow \quad \downarrow \\ \frac{3}{2} \times \frac{8}{3} = \frac{24}{6} = 4 \end{array}$$

Multiply. Then simplify your answer.

1. $1\frac{1}{2} \times 2$
 $\downarrow \quad \downarrow$
 $\frac{3}{2} \times \frac{2}{1}$

2. $3 \times 2\frac{1}{3}$
 $\downarrow \quad \downarrow$

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

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

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

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

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

8. $4 \times 2\frac{3}{5}$

9. $5\frac{1}{4} \times 3$

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

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

12. $2\frac{4}{5} \times 3$

13. $5\frac{1}{3} \times 1\frac{1}{8}$

14. $7\frac{1}{2} \times 2\frac{1}{5}$

15. $6\frac{2}{5} \times 2\frac{3}{8}$

16. If you work for $3\frac{1}{2}$ hours and are paid seven and one-half dollars an hour, how much do you earn?

17. If you buy $4\frac{1}{2}$ yards of cloth for four and a half dollars a yard, how much do you pay?

Answer: _____

Answer: _____