

TARGET To multiply fractions and mixed numbers by whole numbers.

Examples

To multiply a fraction by a whole number multiply the numerator by the whole number and change to a mixed number.

$$\frac{3}{4} \times 5 = \frac{15}{4} = 3\frac{3}{4}$$

To multiply a mixed number change it to an improper fraction and put the whole number over 1 before multiplying.

$$2\frac{1}{4} \times 5 = \frac{9}{4} \times \frac{5}{1} = \frac{45}{4} = 11\frac{1}{4}$$

Simplify by cancelling either number with either denominator.

$$2\frac{1}{4} \times 6 = \frac{9}{\cancel{4}_2} \times \frac{\cancel{6}^3}{1} = \frac{27}{2} = 13\frac{1}{2}$$

A

Copy and complete.

1 $\frac{1}{2} \times 9 = \frac{9}{2} = \square$

2 $\frac{3}{5} \times 4 = \frac{12}{5} = \square$

3 $\frac{7}{12} \times 3 = \frac{\square}{12} = \square$

4 $\frac{5}{6} \times 7 = \frac{\square}{6} = \square$

Work out

5 $\frac{2}{9} \times 5$

9 $\frac{2}{3} \times 10$

6 $\frac{3}{4} \times 11$

10 $\frac{6}{11} \times 4$

7 $\frac{9}{10} \times 6$

11 $\frac{4}{7} \times 3$

8 $\frac{5}{8} \times 2$

12 $\frac{2}{5} \times 8$

B

Copy and complete.

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

2 $5\frac{1}{6} \times 9 = \frac{31}{\cancel{6}_2} \times \frac{\cancel{9}^3}{1} = \frac{\square}{2} = \square$

3 $4\frac{7}{10} \times 2 = \frac{\square}{10^5} \times \frac{\cancel{2}^1}{1} = \square = \square$

4 $1\frac{4}{5} \times 6 = \frac{\square}{5} \times \frac{6}{1} = \square = \square$

Work out

5 $1\frac{3}{8} \times 4$

9 $1\frac{1}{2} \times 8$

13 $2\frac{5}{6} \times 12$

6 $2\frac{2}{3} \times 12$

10 $2\frac{11}{12} \times 3$

14 $3\frac{1}{4} \times 6$

7 $1\frac{2}{7} \times 8$

11 $1\frac{4}{9} \times 6$

15 $1\frac{4}{11} \times 2$

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

12 $2\frac{1}{10} \times 4$

16 $5\frac{1}{3} \times 9$

C

Work out

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

5 $7\frac{1}{2} \times 12$

9 $3\frac{2}{3} \times 7$

13 $8\frac{5}{12} \times 4$

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

6 $9\frac{7}{8} \times 4$

10 $4\frac{3}{10} \times 8$

14 $7\frac{1}{4} \times 8$

3 $7\frac{9}{10} \times 5$

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

11 $2\frac{4}{5} \times 6$

15 $3\frac{5}{6} \times 5$

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

8 $5\frac{2}{9} \times 6$

12 $5\frac{1}{8} \times 12$

16 $6\frac{4}{5} \times 9$