

# Multiply fractions by whole numbers – question 22 Sheet 1

## Multiplying mixed numbers by whole numbers– 1

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

1) Change any mixed numbers to improper fractions  $\frac{15}{4} \times 5$

2) Write the whole number as a fraction over 1.  $\frac{15}{4} \times \frac{5}{1}$

3) Multiply the numerators  $\frac{15}{4} \times \frac{5}{1} = \frac{75}{4}$

4) Multiply the denominators  $\frac{15}{4} \times \frac{5}{1} = \frac{75}{4}$

5) Change any improper fractions back to mixed numbers.  $\frac{75}{4} = 18\frac{3}{4}$

6) Simplify the answer if you can.

## Multiplying mixed numbers by whole numbers– 2

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

1) Multiply the two whole numbers together.  $3 \times 5 = 15$

2) Multiply the fraction by the whole number.  $\frac{3}{4} \times 5$

$$\frac{3}{4} \times \frac{5}{1} = \frac{15}{4}$$

3) Change any improper fractions back to mixed numbers.  $\frac{15}{4} = 3\frac{3}{4}$

4) Add your two answers together.  $15 + 3\frac{3}{4}$

5) Simplify the answer if you can.  $= 18\frac{3}{4}$

1)  $2 \times 7\frac{2}{6}$

2)  $6 \times 6\frac{2}{4}$

3)  $5 \times 7\frac{3}{4}$

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

5)  $2 \times 10\frac{4}{8}$

6)  $7\frac{1}{2} \times 3$

7)  $6\frac{2}{3} \times 3$

8)  $6 \times 4\frac{1}{2}$

## Multiply fractions by whole numbers – question 22 Sheet 2

### Multiplying mixed numbers by whole numbers– 1

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

1) Change any mixed numbers to improper fractions  $\frac{15}{4} \times 5$

2) Write the whole number as a fraction over 1.  $\frac{15}{4} \times \frac{5}{1}$

3) Multiply the numerators  $\frac{15}{4} \times \frac{5}{1} = \frac{75}{4}$

4) Multiply the denominators  $\frac{15}{4} \times \frac{5}{1} = \frac{75}{4}$

5) Change any improper fractions back to mixed numbers.  $\frac{75}{4} = 18\frac{3}{4}$

6) Simplify the answer if you can.

### Multiplying mixed numbers by whole numbers– 2

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

1) Multiply the two whole numbers together.  $3 \times 5 = 15$

2) Multiply the fraction by the whole number.  $\frac{3}{4} \times 5$

$$\frac{3}{4} \times \frac{5}{1} = \frac{15}{4}$$

3) Change any improper fractions back to mixed numbers.  $\frac{15}{4} = 3\frac{3}{4}$

4) Add your two answers together.  $15 + 3\frac{3}{4}$

5) Simplify the answer if you can.  $= 18\frac{3}{4}$

1)  $6 \times 9\frac{5}{8}$

2)  $3 \times 1\frac{1}{6}$

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

4)  $10\frac{1}{6} \times 5$

5)  $6 \times 3\frac{1}{4}$

6)  $3\frac{1}{2} \times 2$

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

8)  $2 \times 10\frac{1}{8}$

## Multiply fractions by whole numbers – question 22 Sheet 3

### Multiplying mixed numbers by whole numbers– 1

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

1) Change any mixed numbers to improper fractions  $\frac{15}{4} \times 5$

2) Write the whole number as a fraction over 1.  $\frac{15}{4} \times \frac{5}{1}$

3) Multiply the numerators  $\frac{15}{4} \times \frac{5}{1} = \frac{75}{4}$

4) Multiply the denominators  $\frac{15}{4} \times \frac{5}{1} = \frac{75}{4}$

5) Change any improper fractions back to mixed numbers.  $\frac{75}{4} = 18\frac{3}{4}$

6) Simplify the answer if you can.

### Multiplying mixed numbers by whole numbers– 2

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

1) Multiply the two whole numbers together.  $3 \times 5 = 15$

2) Multiply the fraction by the whole number.  $\frac{3}{4} \times 5$

$$\frac{3}{4} \times \frac{5}{1} = \frac{15}{4}$$

3) Change any improper fractions back to mixed numbers.  $\frac{15}{4} = 3\frac{3}{4}$

4) Add your two answers together.  $15 + 3\frac{3}{4}$

5) Simplify the answer if you can.  $= 18\frac{3}{4}$

1)  $4 \times 1\frac{4}{8}$

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

3)  $3 \times 10\frac{1}{3}$

4)  $2\frac{3}{6} \times 5$

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

6)  $5\frac{3}{4} \times 2$

7)  $10\frac{3}{8} \times 2$

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

# Multiply fractions by whole numbers – question 22 Sheet 4

## Multiplying mixed numbers by whole numbers– 1

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

1) Change any mixed numbers to improper fractions  $\frac{15}{4} \times 5$

2) Write the whole number as a fraction over 1.  $\frac{15}{4} \times \frac{5}{1}$

3) Multiply the numerators  $\frac{15}{4} \times \frac{5}{1} = \frac{75}{4}$

4) Multiply the denominators  $\frac{15}{4} \times \frac{5}{1} = \frac{75}{4}$

5) Change any improper fractions back to mixed numbers.  $\frac{75}{4} = 18\frac{3}{4}$

6) Simplify the answer if you can.

## Multiplying mixed numbers by whole numbers– 2

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

1) Multiply the two whole numbers together.  $3 \times 5 = 15$

2) Multiply the fraction by the whole number.  $\frac{3}{4} \times 5$

$$\frac{3}{4} \times \frac{5}{1} = \frac{15}{4}$$

3) Change any improper fractions back to mixed numbers.  $\frac{15}{4} = 3\frac{3}{4}$

4) Add your two answers together.  $15 + 3\frac{3}{4}$

5) Simplify the answer if you can.  $= 18\frac{3}{4}$

1)  $6 \times 3\frac{1}{8}$

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

3)  $3 \times 5\frac{1}{6}$

4)  $9\frac{2}{6} \times 3$

5)  $3 \times 7\frac{2}{3}$

6)  $8\frac{1}{2} \times 5$

7)  $4\frac{2}{3} \times 6$

8)  $5 \times 4\frac{2}{6}$

## Multiply fractions by whole numbers – question 22

Sheet 1

1)  $14\frac{4}{6}$

2) 39

3)  $38\frac{3}{4}$

4)  $23\frac{1}{3}$

5) 21

6)  $22\frac{1}{2}$

7) 20

8) 27

Sheet 2

1)  $57\frac{6}{8}$

2)  $3\frac{3}{6}$

3)  $15\frac{3}{4}$

4)  $50\frac{5}{6}$

5)  $19\frac{2}{4}$

6) 7

7)  $7\frac{1}{2}$

8)  $20\frac{2}{8}$

Sheet 3

1) 6

2)  $23\frac{1}{4}$

3) 31

4)  $12\frac{3}{6}$

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

6)  $11\frac{2}{4}$

7)  $20\frac{6}{8}$

8) 3

Sheet 4

1)  $18\frac{6}{8}$

2) 22

3)  $15\frac{3}{6}$

4) 28

5) 23

6)  $42\frac{1}{2}$

7) 28

8)  $21\frac{4}{6}$