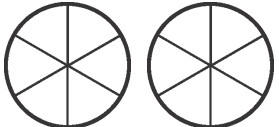





Add then simplify. Use two different colours for the shapes.

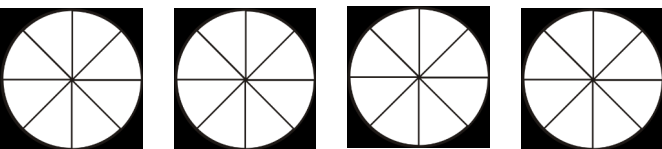
1)  +  =   
 =  

$1\frac{5}{6} + 2\frac{3}{6} = 3$

2)  $2\frac{5}{8} + 2\frac{7}{8} =$

3)  $1\frac{2}{3} + 2\frac{2}{3} =$

Subtract then simplify. Cross out the shapes that are taken away.

4)   
 $3\frac{2}{8} - 1\frac{7}{8} =$

5)  $3\frac{1}{4} - 2\frac{3}{4} =$

6)  $2\frac{1}{6} - 1\frac{5}{6} =$

Add then simplify these related mixed numbers. You will need to convert one fraction first. Use two different colours for the shapes.

1)

The diagram shows the addition of two mixed numbers. On the left, the mixed number  $1\frac{5}{6}$  is represented by one circle divided into 6 equal sectors, with 5 sectors shaded. Next to it is the mixed number  $2\frac{2}{3}$ , represented by two squares, each divided into 3 equal triangles, with 2 triangles shaded. An equals sign follows. To the right of the equals sign, there are three circles, each divided into 6 equal sectors, representing the sum of the fractions. Below these circles is a square box for the integer part of the sum, followed by two circles, each divided into 6 equal sectors, representing the fractional part of the sum.

2)

$$1\frac{3}{8} + 5\frac{3}{4} = \square$$

3)

$$4\frac{2}{3} + 3\frac{5}{9} = \square$$

Add then simplify these unrelated mixed numbers. You will need to convert both fractions. Use two different colours for the shapes.

4)

The diagram shows the addition of two mixed numbers. On the left, the mixed number  $2\frac{2}{3}$  is represented by two circles, each divided into 3 equal sectors, with 2 sectors shaded. Next to it is the mixed number  $2\frac{2}{5}$ , represented by two circles, each divided into 5 equal sectors, with 2 sectors shaded. An equals sign follows. To the right of the equals sign, there are three circles, each divided into 15 equal sectors, representing the sum of the fractions. Below these circles is a square box for the integer part of the sum, followed by a circle divided into 15 equal sectors, representing the fractional part of the sum.

5)

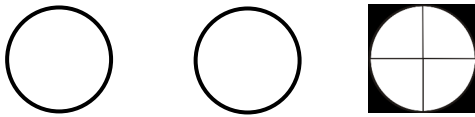
$$3\frac{2}{3} + 5\frac{1}{7} = \square$$

6)

$$4\frac{1}{2} + 4\frac{4}{5} = \square$$

Subtract then simplify these related mixed numbers. You will need to convert one fraction first. Cross out the fractions as they are taken away.

1)



$$2\frac{1}{4} - 1\frac{7}{8} = \boxed{\phantom{00}}$$

2)

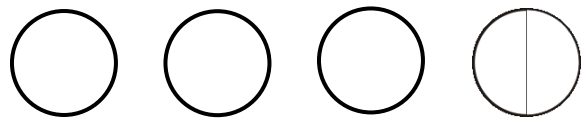
$$8\frac{1}{3} - 5\frac{5}{6} = \boxed{\phantom{00}}$$

3)

$$6\frac{3}{5} - 2\frac{7}{10} = \boxed{\phantom{00}}$$

Add then simplify these unrelated mixed numbers. Use two different colours for the shapes.

4)



$$3\frac{1}{2} - 1\frac{2}{3} = \boxed{\phantom{00}}$$

5)

$$9\frac{1}{4} - 3\frac{3}{4} = \boxed{\phantom{00}}$$

6)

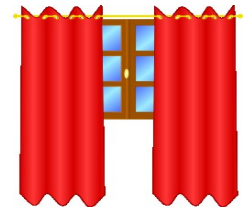
$$12\frac{4}{5} - 7\frac{1}{2} = \boxed{\phantom{00}}$$

Curtaining required for windows:

$1\frac{1}{2}$  m

$3\frac{3}{4}$  m

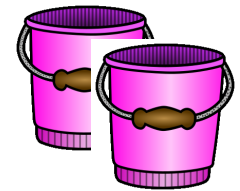
What is the total length of curtain fabric needed?



A builder had several buckets of plaster mix:

2 full buckets,  $\frac{1}{3}$  bucket,  $\frac{1}{2}$  bucket,  $1\frac{3}{4}$  bucket

What is the total amount of mix he has?



A tiler was tiling a workshop floor with an area of  $8\frac{1}{2}$  m<sup>2</sup>. After working for an hour he had tiled  $4\frac{3}{4}$  m<sup>2</sup>. What area is left to tile?



There are 2 full pizzas and  $\frac{5}{8}$  of another pizza on the table.

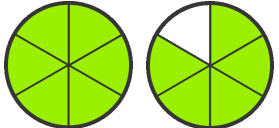
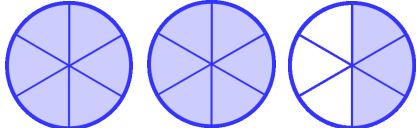
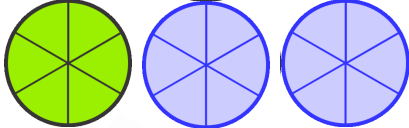
Ten minutes later, there is 1 whole pizza and  $\frac{3}{4}$  of a pizza remaining.

What portion of the pizzas was eaten in that 10 minutes?



**ANSWERS**

Add then simplify. Use two different colours for the shapes.

1)  +  = 

$$1\frac{5}{6} + 2\frac{3}{6} = 4\frac{2}{6}$$

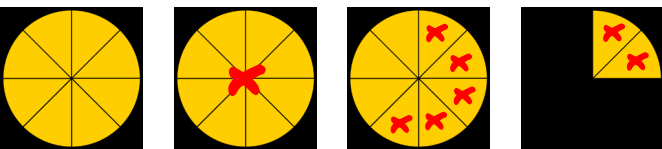
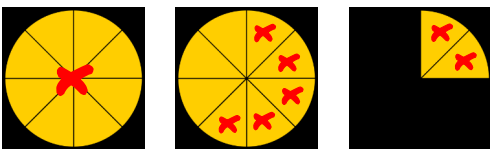
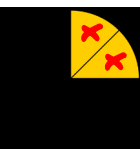
$$= 4\frac{1}{3}$$

2)  $2\frac{5}{8} + 2\frac{7}{8} = 5\frac{4}{8}$

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

3)  $1\frac{2}{3} + 2\frac{2}{3} = 4\frac{1}{3}$

Subtract then simplify. Cross out the shapes that are taken away.

4)  -  = 

$$3\frac{2}{8} - 1\frac{7}{8} = 1\frac{3}{8}$$

5)  $3\frac{1}{4} - 2\frac{3}{4} = \frac{2}{4}$

$$= \frac{1}{2}$$

6)  $2\frac{1}{6} - 1\frac{5}{6} = \frac{2}{6}$

$$= \frac{1}{3}$$

# ANSWERS

Add then simplify these related mixed numbers. You will need to convert one fraction first. Use two different colours for the shapes.

1)

$$1\frac{5}{6} + 2\frac{2}{3} = 4\frac{3}{6} = 4\frac{1}{2}$$

2)

$$1\frac{3}{8} + 5\frac{3}{4} = 7\frac{1}{8}$$

3)

$$4\frac{2}{3} + 3\frac{5}{9} = 8\frac{2}{9}$$

Add then simplify these unrelated mixed numbers. You will need to convert both fractions. Use two different colours for the shapes.

4)

$$2\frac{2}{3} + 2\frac{2}{5} = 5\frac{1}{5}$$

5)

$$3\frac{2}{3} + 5\frac{1}{7} = 8\frac{17}{21}$$




6)

$$4\frac{1}{2} + 4\frac{4}{5} = 9\frac{3}{10}$$

# ANSWERS

Subtract then simplify these related mixed numbers. You will need to convert one fraction first. Cross out the fractions as they are taken away.

1)

$$2\frac{1}{4} - 1\frac{7}{8} = \boxed{\frac{3}{8}}$$

2)

$$8\frac{1}{3} - 5\frac{5}{6} = \boxed{2\frac{3}{6}}$$


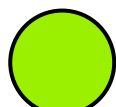


$$= \boxed{2\frac{1}{2}}$$

3)

$$6\frac{3}{5} - 2\frac{7}{10} = \boxed{3\frac{9}{10}}$$

Add then simplify these unrelated mixed numbers. Use two different colours for the shapes.

4)

$$3\frac{1}{2} - 1\frac{2}{3} = \boxed{1\frac{5}{6}}$$

5)

$$9\frac{1}{4} - 3\frac{3}{4} = \boxed{5\frac{2}{4}}$$

$$= \boxed{5\frac{1}{2}}$$

6)

$$12\frac{4}{5} - 7\frac{1}{2} = \boxed{5\frac{3}{10}}$$

# ANSWERS

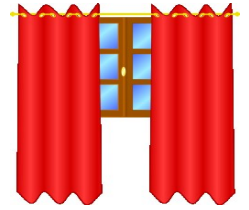
Curtaining required for windows:

$1\frac{1}{2}$  m

$3\frac{3}{4}$  m

What is the total length of curtain fabric needed?

$$1\frac{1}{2} + 3\frac{3}{4} = 5\frac{1}{4} \text{ meters of fabric}$$



A builder had several buckets of plaster mix:

2 full buckets,  $\frac{1}{3}$  bucket,  $\frac{1}{2}$  bucket,  $1\frac{3}{4}$  bucket

What is the total amount of mix he has?

$$2 + \frac{1}{3} + \frac{1}{2} + 1\frac{3}{4} = 4\frac{7}{12} \text{ buckets of mix}$$



A tiler was tiling a workshop floor with an area of  $8\frac{1}{2}$  m<sup>2</sup>. After working for an hour he had tiled  $4\frac{3}{4}$  m<sup>2</sup>. What area is left to tile?

$$8\frac{1}{2} - 4\frac{3}{4} = 3\frac{3}{4} \text{ square meters to tile}$$



There are 2 full pizzas and  $\frac{5}{8}$  of another pizza on the table.

Ten minutes later, there is 1 whole pizza and  $\frac{3}{4}$  of a pizza remaining.

What portion of the pizzas was eaten in that 10 minutes?

$$2\frac{5}{8} - 1\frac{3}{4} = \frac{7}{8} \text{ of a pizza}$$

