Add fractions

a)

 $\frac{1}{8} + \frac{3}{8} =$

48



b)

 $\frac{5}{8} + \frac{1}{8} =$

8



Which part-whole model is the odd one out? Voiovo Talk about your choice with a partner. Did they choose the same odd one out?









Alex and Huan are eating a cake. Alex eats $\frac{4}{7}$ of the cake. Huan eats $\frac{2}{7}$ of the cake. What fraction of the cake have they eaten altogether? They have eaten $\left|\frac{4}{7}\right|$ of the cake altogether. Teddy is adding fractions. $\frac{1}{4} + \frac{2}{4} = \frac{3}{8}$ a) Draw a bar model to show that Teddy is wrong. $\frac{1}{4} + \frac{2}{4} = \frac{3}{4}$ not $\frac{3}{8}$ **b)** Complete the addition $\frac{1}{4} + \frac{2}{4} = \left| \frac{3}{4} \right|$

Annie has baked 12 muffins.

She puts them into 2 boxes. What fraction of the muffins could she put in each box? Complete the table to show four possibilities. One has been done for you.

Box 1	Box 2
<u>1</u> 12	<u>11</u> 12
2 12	10
3 12	পথ
412	812
20	7
6	<u>6</u> 12

Are there any other possibilities? Talk about it with a partner.

7	Complete the additions.	
	a) $\frac{3}{8} + \frac{4}{8} = \frac{\frac{7}{8}}{\frac{7}{8}}$	d
	b) $\frac{3}{9} + \frac{4}{9} = \boxed{\frac{7}{9}}{\frac{7}{9}}$	e
	c) $\frac{3}{29} + \frac{4}{29} = \frac{7}{29}$	f



$$\frac{3}{103} + \frac{4}{103} = \frac{\frac{7}{103}}{\frac{103}{103}}$$

$$\frac{5}{31} + \frac{9}{31} = \boxed{\frac{14}{31}}$$

$$) \quad \frac{17}{111} + \frac{33}{111} = \boxed{\frac{50}{111}}$$







Complete the subtractions.

3

 $\frac{1}{8}$ of the chocolate bar left. Jack has

e)
$$\frac{8}{12} - \frac{4}{12} = \frac{4}{12} = \frac{1}{3}$$

f) $\frac{9}{12} - \frac{5}{12} = \frac{4}{12} = \frac{1}{3}$
g) $\frac{9}{59} - \frac{5}{59} = \frac{4}{59}$
h) $\frac{13}{127} - \frac{9}{127} = \frac{4}{127}$





Kim has read $\frac{1}{7}$ more of her book than Tom.



e)
$$\frac{7}{10} - \frac{5}{10} = \frac{1}{10} + \frac{1}{10}$$



















The jug is $\frac{4}{7}$ full.



It needs 72 ml more to be full.

How much water can the jug hold in total? [68 m]

- A box is full of spheres and cubes.
 - $\frac{5}{6}$ of the shapes are cubes.

 $\frac{3}{4}$ of the cubes are yellow.

There are 60 yellow cubes in the box.

How many shapes are there in total?

96 shapes

Modelled solutions are on the video

2

Your turn



Complete the calculations.

3







+

= 16

An apple and banana cost the same as two pears.

Three pears cost £1.20

A pear costs l2p more than an apple.

What is the cost of a banana?

52p

Modelled solutions are on the video

1 Your turn



A rectangle has a length of 12 cm and a width of 6 cm. It is cut in quarters like shown below.



The four parts are put together to make the following shape.



What is the perimeter of the new shape? 48 cm

A rectangle has a length of 12 cm and a width of 6 cm. It is cut in quarters like shown below. 12 cm



The four parts are put together to make the following shape.



What other perimeters could be made? Numerous solutions

Modelled solutions are on the video

2

Your turn



There are 81 red, blue and yellow counters in total.

There are 9 more red counters than yellow ones.

There are the same amount of yellow and blue counters.

How many of each colour are there?

= 33= 24= 24

3

There are 81 red, blue and yellow counters in total.

There are 9 more red counters than yellow ones.

There are the same amount of red and blue counters.



Modelled solutions are on the video

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