

Lesson 3 – Measurement: Money – Add Money

NC Objective:

Add and subtract amounts of money to give change, using both £ and p in practical contexts.

Resources needed:

Differentiated Sheets
Teaching Slides

Vocabulary:

Addition, represent, pounds, pence, exchange, calculation

Children add two amounts of money using pictorial representations to support them. They are encouraged to add the pounds first and then add the pence. Children then exchange the pence for pounds to complete their calculations.

Key Questions:

Can you group any of the coins to make a pound?

Can you use estimation to support your calculation?

Why is adding 99p the same as adding £1 and taking away 1p?

★ Working Towards

Find the total amount:

£ ____ and ____ p + £ ____ and ____ p
There is £ ____ and ____ p.
Altogether there is £ ____ and ____ p.

Use this method to calculate: £2 and 10p and £1 and 40p.

What calculation does the bar model show?

£2 and 20p

Draw a bar model to show: £2 and 30p and £3 and 50p.

Find the total costs. Choose your method of working out.

A rucksack costs £1 and 50p.
A rucksack costs £2 and 30p.
How much do they cost altogether?

A wheelbarrow costs £1 and 50p.
A wheelbarrow costs £2 and 30p.
How much do they cost altogether?

★★ Working Within

Find the total amount:

£ ____ and ____ p + £ ____ and ____ p
There is £ ____ and ____ p.
Altogether there is £ ____ and ____ p.

Use this method to calculate: £2 and 40p and £1 and 70p.

What calculation does the bar model show?

£2 and 80p

Draw a bar model to show: £2 and 50p and £3 and 50p.

Find the total costs. Choose your method of working out.

A rucksack costs £1 and 50p.
A rucksack costs £2 and 80p.
How much do they cost altogether?

A wheelbarrow costs £1 and 50p.
A wheelbarrow costs £2 and 80p.
How much do they cost altogether?

★★★ Greater Depth

Find the total amount:

£ ____ and ____ p + £ ____ and ____ p
There is £ ____ and ____ p.
Altogether there is £ ____ and ____ p.

Use this method to calculate: £2 and 40p and £1 and 70p.

Other calculations and total costs the bar model show:

£2 and 80p

Draw a similar bar model to show: £4 and 60p and £2 and 30p and £3 and 50p.

Find the total costs. Choose your method of working out.

A rucksack costs £1 and 50p.
A rucksack costs £2 and 80p.
How much do they cost altogether?

A wheelbarrow costs £1 and 50p.
A wheelbarrow costs £2 and 80p.
How much do they cost altogether?

Children cut out the problems and show any working out or pictorial images they have to draw in their books.

On this sheet, they work with easier amounts in multiples of 10 to help them add the amounts

Children cut out the problems and show any working out or pictorial images they have to draw in their books.

On this sheet, they work with a range of amounts and exchange the pence for pounds to complete their calculations.

On this sheet, children add 3 sets of amounts rather than the 2 amounts on the other sheets.

Reasoning & Problem Solving

Add Money Reasoning & Problem Solving

Rosie bought these ice-creams.

Ice-creams cost 20p each.
How much did Rosie spend?
Esin bought twice as many ice-creams as Rosie.
How many ice-creams did Esin buy?

How much money did Esin spend on ice-creams?

Zach has £10.

Has he got enough money to buy a t-shirt and a cupcake?

£8 and 60p 90p £5 and 30p 50p

What combinations of items can he buy with £10?

1. 2. 3.

Add Money Reasoning & Problem Solving

Rosie bought these ice-creams.

Ice-creams cost 25p each.
How much did Rosie spend?
Esin bought 3 times as many ice-creams as Rosie.
How many ice-creams did Esin buy?
How much money did Esin spend on ice-creams?

How much more money did Esin spend than Rosie?

Zach has £10.

Has he got enough money to buy a t-shirt and two cupcakes?

£8 and 60p 90p £5 and 30p 75p

What combinations of items can he buy with £10?
Find at least five.

Add Money Reasoning & Problem Solving

Rosie bought these ice-creams.

Ice-creams cost 30p each.
How much did Rosie spend?
Esin bought 3 times as many ice-creams as Rosie.
How many ice-creams did Esin buy?
How much money did Esin spend on ice-creams?

How much more money did Esin spend than Rosie?
How much money did they spend altogether?

Zach has half of twenty pounds.

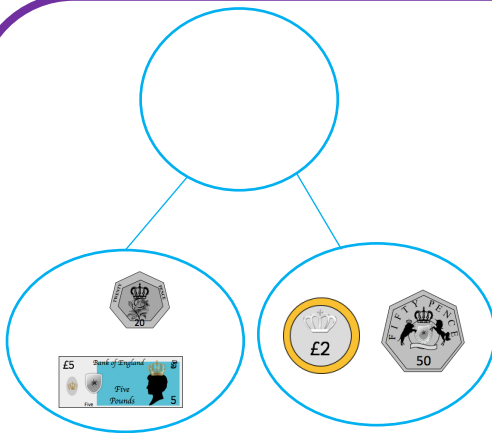
Has he got enough money to buy a t-shirt and two cupcakes?

£8 and 60p 90p £5 and 30p 45p

3 and 90p 2 and 90p

What combinations of items could he buy with £20?
Find at least five.

Find the total amount.



£_____ and _____ p + £_____ and _____ p

There is £_____ and _____ p.

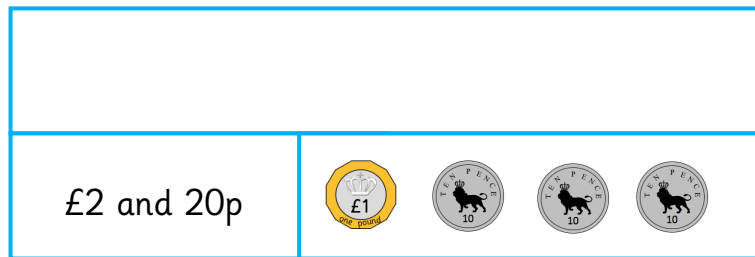
Altogether there is £_____ and _____ p.

Use this method to calculate:

£2 and 10p and £1 and 40p

£1 and 30p and £5 and 20p

What calculation does the bar model show?



Draw a bar model to show:

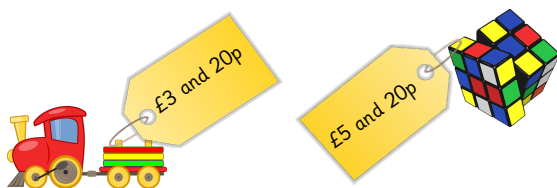
£2 and 30p and £3 and 50p

Find the total costs. Choose your method of working out.

A train cost £3 and 20p.

A cube cost £5 and 20p.

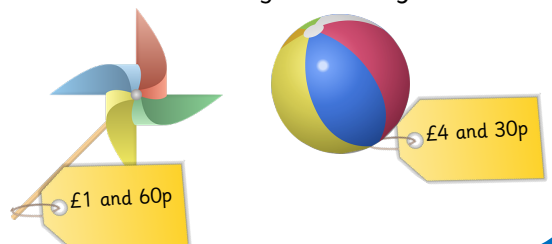
How much do they cost altogether?



A windmill cost £1 and 60p.

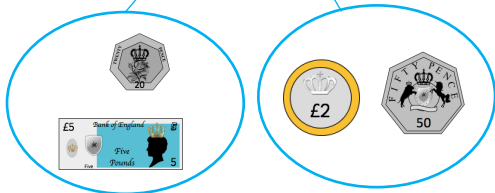
A ball cost £4 and 30p.

How much do they cost altogether?



Find the total amount.

£7 and 70p



£ 5 and 20 p + £ 2 and 50 p

There is £ 7 and 70 p.

Altogether there is £ 7 and 70 p.

Use this method to calculate:

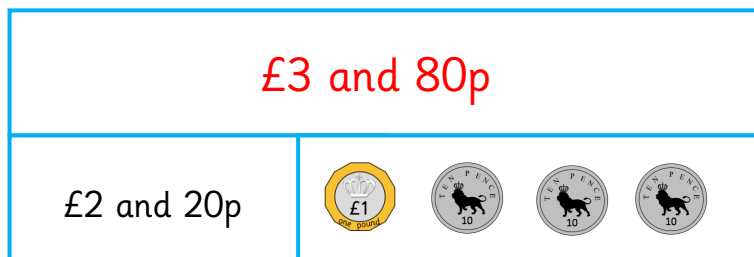
= £6 and 50p

£2 and 10p and £1 and 40p **= £3 and 50p**

£1 and 30p and £5 and 20p

What calculation does the bar model show?

£2 and 50p
+
£1 and 30p



Draw a bar model to show:

£2 and 30p and £3 and 50p **= £5 and 80p**

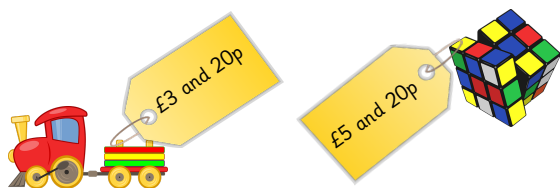
Find the total costs. Choose your method of working out.

A train cost £3 and 20p.

A cube cost £5 and 20p.

= £8 and 40p

How much do they cost altogether?

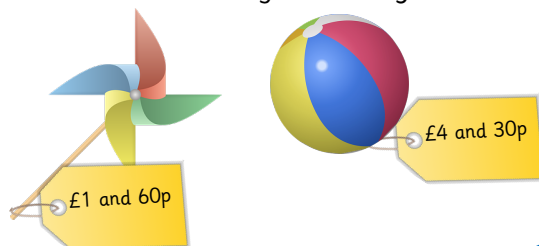


A windmill cost £1 and 60p.

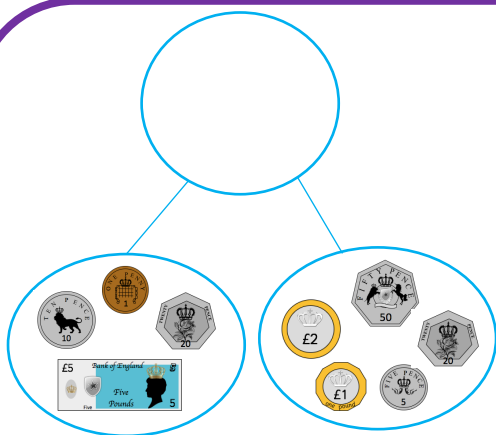
A ball cost £4 and 30p.

= £5 and 90p

How much do they cost altogether?



Find the total amount.



£_____ and _____ p + £_____ and _____ p

There is £_____ and _____ p.

106p = £_____ and _____ p

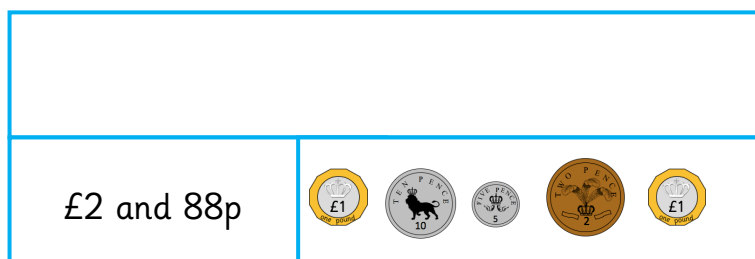
Altogether there is £_____ and _____ p.

Use this method to calculate:

£2 and 45p and £7 and 85p

£1 and 99p and £5 and 84p

What calculation does the bar model show?



Draw a bar model to show:

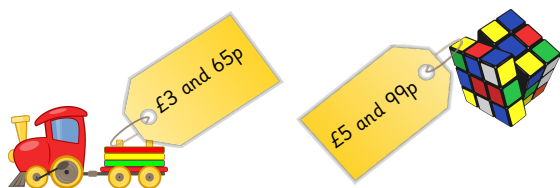
£2 and 35p and £3 and 55p

Find the total costs. Choose your method of working out.

A train cost £3 and 65p.

A cube cost £5 and 99p.

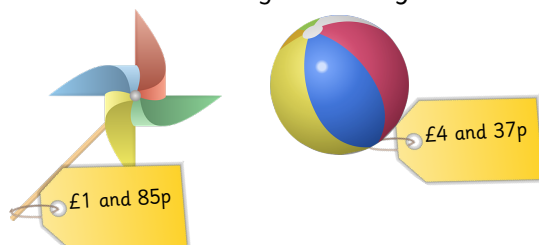
How much do they cost altogether?



A windmill cost £1 and 85p.

A ball cost £4 and 37p.

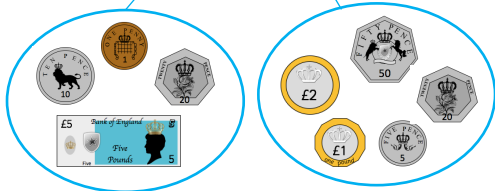
How much do they cost altogether?





Find the total amount.

£9 and 6p



£ 5 and 31 p + £ 3 and 75 p

There is £ 8 and 106 p.

106p = £ 1 and 6 p

Altogether there is £ 9 and 6 p.

Use this method to calculate:

= £7 and 83p

£2 and 45p and £7 and 85p = £10 and 30p

£1 and 99p and £5 and 84p

What calculation does the bar model show?

£2 and 88p
+
£2 and 17p

£5 and 5p

£2 and 88p



Draw a bar model to show:

£2 and 35p and £3 and 55p = £5 and 90p

Find the total costs. Choose your method of working out.

A train cost £3 and 65p.

A cube cost £5 and 99p.

= £9 and 64p

How much do they cost altogether?

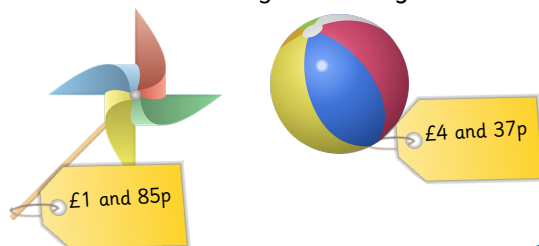


A windmill cost £1 and 85p.

A ball cost £4 and 37p.

= £6 and 22p

How much do they cost altogether?



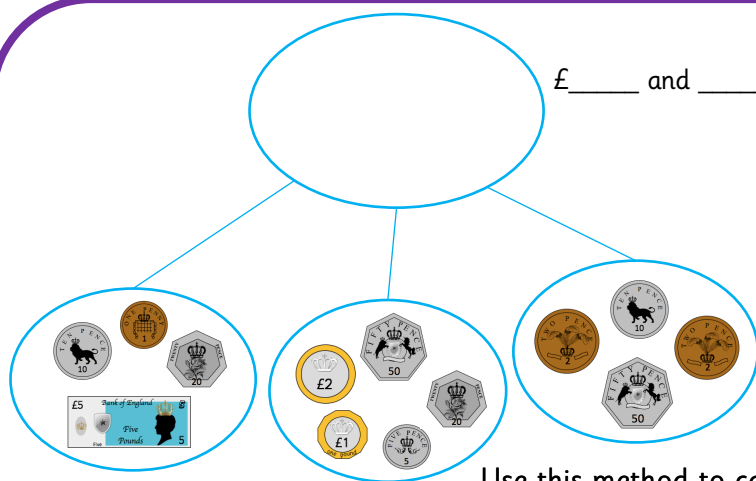
Find the total amount.

£ ____ and ____ p + £ ____ and ____ p + £ ____ and ____ p

There is £ ____ and 170p.

170p = £ ____ and ____ p

Altogether there is £ ____ and ____ p.

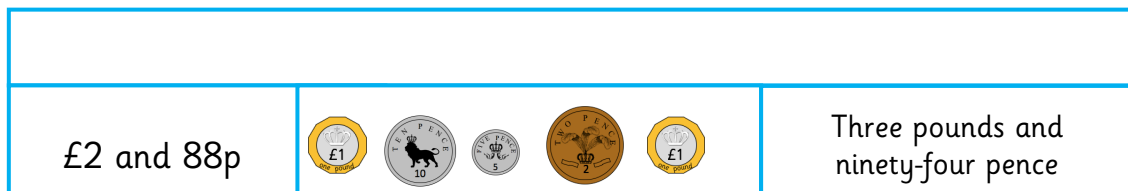


Use this method to calculate:

£2 and 45p add £7 and 85p add £10 and 44p

£12 and 33p add £4 and 29p add £13 and 23p

What calculation and total does the bar model show?



Draw a similar bar model to show:

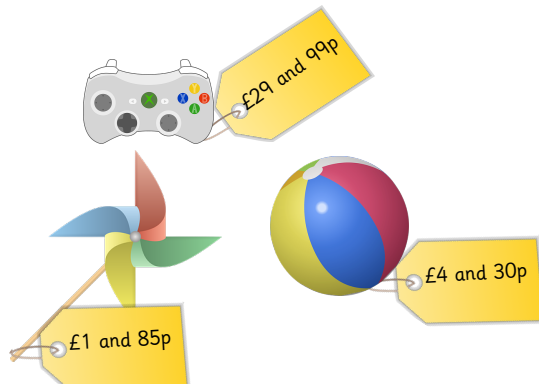
£4 and 63p and £2 and 35p and £3 and 55p

Find the total costs. Choose your method of working out.

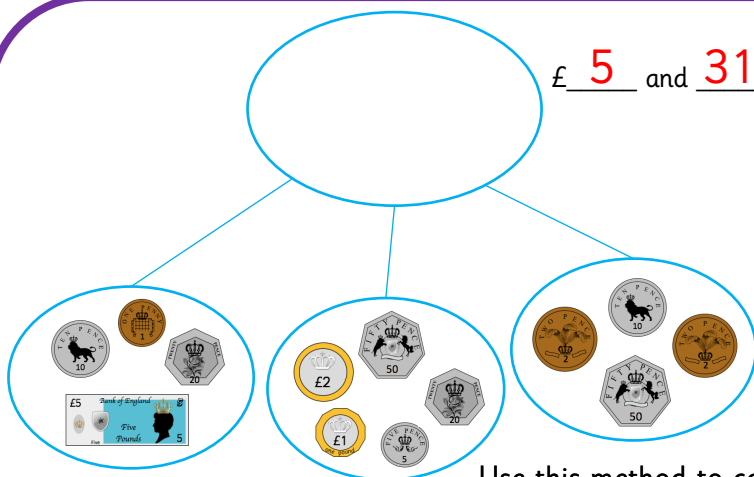
What is the total cost of the items below?



What is the total cost of the items below?



Find the total amount.

£ 5 and 31 p + £ 3 and 75 p + £ 0 and 64 pThere is £ 8 and 170p.170p = £ 1 and 70 pAltogether there is £ 9 and 70 p.

Use this method to calculate:

= £20 and 74p

£2 and 45p add £7 and 85p add £10 and 44p

= £29 and 85p

£12 and 33p add £4 and 29p add £13 and 23p

What calculation and total does the bar model show?

£8 and 99p		
£2 and 88p		Three pounds and ninety-four pence

Draw a similar bar model to show:

£4 and 63p and £2 and 35p and £3 and 55p

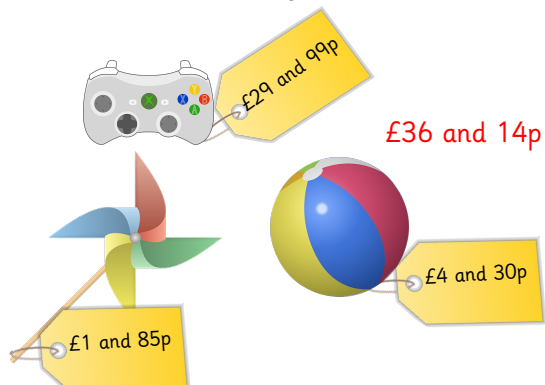
£10 and 53p

Find the total costs. Choose your method of working out.

What is the total cost of the items below?



What is the total cost of the items below?



Rosie bought these ice-creams.



Ice-creams cost 20p each.
How much did Rosie spend?

Esin bought twice as many ice-creams as Rosie.
How many ice-creams did Esin buy?

How much money did Esin spend on ice-creams?



masterthecurriculum.co.uk



Zach has £10.

Has he got enough money to buy
a t-shirt and a cupcake?



£8 and 60 p



90 p



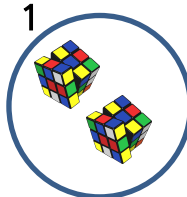
£5 and 30 p



50 p

What combinations of items can he buy with £10?

1



2



3



Rosie bought these ice-creams.



Ice-creams cost 20p each.
How much did Rosie spend?

Esin bought twice as many ice-creams as Rosie.
How many ice-creams did Esin buy?

How much money did Esin spend on ice-creams?



masterthecurriculum.co.uk



Zach has £10.

Has he got enough money to buy
a t-shirt and a cupcake?



£8 and 60 p



90 p



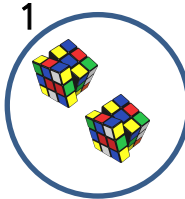
£5 and 30 p



50 p

What combinations of items can he buy with £10?

1



2



3



Rosie bought these ice-creams.



Ice-creams cost 20p each.
How much did Rosie spend?

Esin bought twice as many ice-creams as Rosie.

How many ice-creams did Esin buy?

How much money did Esin spend on ice-creams?

Rosie spent 60p.

Esin bought 6 ice-creams.

She spent 120p or £1 and 20p.



masterthecurriculum.co.uk



Zach has £10.

Has he got enough money to buy
a t-shirt and a cupcake?



£8 and 60 p



90 p



£5 and 30 p

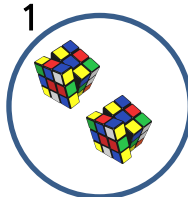


50 p

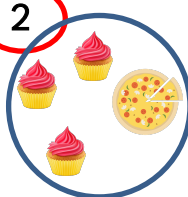
$£8 \text{ and } 60\text{p} + 50\text{p} = £9 \text{ and } 10\text{p}$
He does have enough money.

Which combinations of items can he buy with £10?

1



2



3



Rosie bought these ice-creams.



Ice-creams cost 20p each.
How much did Rosie spend?

Esin bought twice as many ice-creams as Rosie.

How many ice-creams did Esin buy?

How much money did Esin spend on ice-creams?

Rosie spent 60p.

Esin bought 6 ice-creams.

She spent 120p or £1 and 20p.



masterthecurriculum.co.uk



Zach has £10.

Has he got enough money to buy
a t-shirt and a cupcake?



£8 and 60 p



90 p



£5 and 30 p

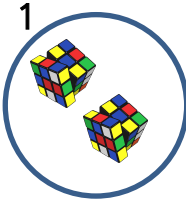


50 p

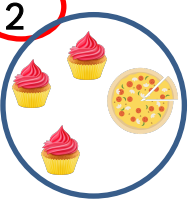
$£8 \text{ and } 60\text{p} + 50\text{p} = £9 \text{ and } 10\text{p}$
He does have enough money.

What combinations of items can he buy with £10?

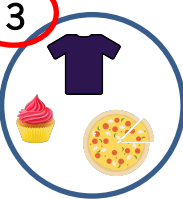
1



2



3



Rosie bought these ice-creams.



Ice-creams cost 25p each.
How much did Rosie spend?

Esin bought 3 times as many ice-creams as Rosie.

How many ice-creams did Esin buy?

How much money did Esin spend on ice-creams?

How much more money did Esin spend than Rosie?



masterthecurriculum.co.uk

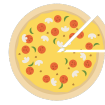


Zach has £10.

Has he got enough money to buy a t-shirt and two cupcakes?



£8 and 65 p



97 p



£5 and 35 p



75 p

What combinations of items can he buy with £10?
Find at least five.

Rosie bought these ice-creams.



Ice-creams cost 25p each.
How much did Rosie spend?

Esin bought 3 times as many ice-creams as Rosie.

How many ice-creams did Esin buy?

How much money did Esin spend on ice-creams?

How much more money did Esin spend than Rosie?



masterthecurriculum.co.uk



Zach has £10.

Has he got enough money to buy a t-shirt and two cupcakes?



£8 and 65 p



97 p



£5 and 35 p



75 p

What combinations of items can he buy with £10?
Find at least five.

Rosie bought these ice-creams.



Ice-creams cost 25p each.

How much did Rosie spend?

Esin bought 3 times as many ice-creams as Rosie.

How many ice-creams did Esin buy?

How much money did Esin spend on ice-creams?

How much more money did Esin spend than Rosie?

Rosie spent 100p or £1. Esin bought 12 ice-creams.
She spent 300p or £3.

Esin spent 200p or £2 more than Rosie.



Zach has £10.

Has he got enough money to buy a t-shirt and two cupcakes?



£8 and 65 p



97 p



£5 and 35 p



75 p

$£8 \text{ and } 65\text{p} + 75\text{p} + 75\text{p} = £10 \text{ and } 15\text{p}$

He does not have enough money.

What combinations of items can he buy with £10?

Find at least five.

E.g. Zach can buy:

1 t-shirt and 1 cupcake; 1 cupcake and 1 pizza,

1 cube and 6 cupcakes (or less than 6);

1 cube and 4 pizzas (or less than 4);

1 cube, 1 pizza and 1 cupcake, etc.

Rosie bought these ice-creams.



Ice-creams cost 25p each.

How much did Rosie spend?

Esin bought 3 times as many ice-creams as Rosie.

How many ice-creams did Esin buy?

How much money did Esin spend on ice-creams?

How much more money did Esin spend than Rosie?

Rosie spent 100p or £1. Esin bought 12 ice-creams.
She spent 300p or £3.

Esin spent 200p or £2 more than Rosie.



Zach has £10.

Has he got enough money to buy a t-shirt and two cupcakes?



£8 and 65 p



97 p



£5 and 35 p



75 p

$£8 \text{ and } 65\text{p} + 75\text{p} + 75\text{p} = £10 \text{ and } 15\text{p}$

He does not have enough money.

What combinations of items can he buy with £10?

E.g. Zach can buy:

1 t-shirt and 1 cupcake; 1 cupcake and 1 pizza,

1 cube and 6 cupcakes (or less than 6);

1 cube and 4 pizzas (or less than 4);

1 cube, 1 pizza and 1 cupcake, etc.

Rosie bought these ice-creams.



Ice-creams cost 36p each.
How much did Rosie spend?

Esin bought 3 times as many ice-creams as Rosie.

How many ice-creams did Esin buy?

How much money did Esin spend on ice-creams?

How much more money did Esin spend than Rosie?

How much money did they spend altogether?



Zach has half of twenty pounds.

Has he got enough money to buy a t-shirt and two cupcakes?



£8 and 65 p



97 p



£5 and 35 p



45 p



3 and 99 p



2 and 99 p



What combinations of items could he buy with £20?

Find at least five.

Rosie bought these ice-creams.



Ice-creams cost 36p each.
How much did Rosie spend?

Esin bought 3 times as many ice-creams as Rosie.

How many ice-creams did Esin buy?

How much money did Esin spend on ice-creams?

How much more money did Esin spend than Rosie?

How much money did they spend altogether?



Zach has half of twenty pounds.

Has he got enough money to buy a t-shirt and two cupcakes?



£8 and 65 p



97 p



£5 and 35 p



45 p



3 and 99 p



2 and 99 p



What combinations of items could he buy with £20?

Find at least five.

Rosie bought these ice-creams.



Ice-creams cost 36p each.

How much did Rosie spend?

Esin bought 3 times as many ice-creams as Rosie.

How many ice-creams did Esin buy?

How much money did Esin spend on ice-creams?

How much more money did Esin spend than Rosie?

How much money did they spend altogether?

Rosie spent 144p or £1 and 44p.

Esin bought 12 ice-creams.

She spent 432p or £4 and 32p.

Esin spent 288p or £2 and 88p more than Rosie. They spent 576p or £5 and 76p altogether.



Zach has half of twenty pounds.
Has he got enough money to buy a t-shirt and two cupcakes?



£8 and 65 p



97 p



£5 and 35 p



45 p



3 and 99 p



2 and 99 p

£8 and 65p + 45p + 45p = £9 and 55p

He does have enough money.

What combinations of items could he buy with £20?

Find at least five.

E.g. Zach can buy:

2 t-shirts and 5 cupcakes; 4 joysticks and 1 ball,
3 cubes and 4 pizzas (or less than 4);
1 cube, 1 t-shirt and 1 joystick;
6 balls and 4 cupcakes, etc.



Rosie bought these ice-creams.



Ice-creams cost 36p each.

How much did Rosie spend?

Esin bought 3 times as many ice-creams as Rosie.

How many ice-creams did Esin buy?

How much money did Esin spend on ice-creams?

How much more money did Esin spend than Rosie?

How much money did they spend altogether?

Rosie spent 144p or £1 and 44p.

Esin bought 12 ice-creams.

She spent 432p or £4 and 32p.

Esin spent 288p or £2 and 88p more than Rosie. They spent 576p or £5 and 76p altogether.



Zach has half of twenty pounds.
Has he got enough money to buy a t-shirt and two cupcakes?



£8 and 65 p



97 p



£5 and 35 p



45 p



3 and 99 p



2 and 99 p

£8 and 65p + 45p + 45p = £9 and 55p

He does have enough money.

What combinations of items could he buy with £20?

Find at least five.

E.g. Zach can buy:

2 t-shirts and 5 cupcakes; 4 joysticks and 1 ball,
3 cubes and 4 pizzas (or less than 4);
1 cube, 1 t-shirt and 1 joystick;
6 balls and 4 cupcakes, etc.

