

Maths

Monday 11th January 2021



L.O. To select money



Today we are going to learn how to choose coins to make given amounts of money. There will always be more than one way to make any amount, but I want you to think of ways that use the **least** amount of coins. So, for example, if I wanted to make 60p I could use 6 10ps because 6 lots of 10 is 60. Alternatively I could use 12 lots of 5p because 12×5 is also 60. If I wanted to, I could even have 60 1ps or 30 2ps. They would all add up to 60p. However, each of these ways involves lots of coins. They would take up a lot of room in my purse and be very heavy. There's a much better way using less coins! I could use a 50p and a 10p. That's a much better way to make 60p.

As you work through our tasks today, I want you to try to use the least amount of coins to make the amounts shown. I know you can do this, as you are fabulous mathematicians and I can't wait to see your work.

Look out for our Challenge Bot. He sets some extra tasks for you to do, **but only if you want to.**



L.O. Select Money

Key Vocabulary

Money Year 2

Money

Coins and notes used to pay for items.



waterforcurriculum.co.uk

Money Year 2

Pounds

The symbols used for pound is £.
We use **pounds** in the U.K.
There are 100 pence in a **pound**.



£5 Five pounds £1 One pound

waterforcurriculum.co.uk

Money Year 2

Convert

Convert means to change.
You can **convert** pence into pounds and pence and **convert** pounds and pence into pence.

100p is converted to £1 £1 is converted to 100p

waterforcurriculum.co.uk

Money Year 2

Currency

Is a system of money used in a country.
The U.K uses a **currency** of pounds and pence whilst the U.S uses a **currency** of dollars and cents.



waterforcurriculum.co.uk

Money Year 2

Decimal Point

A **decimal point** is a small dot to separate the whole number from the fractional part.

£2.56

2 whole pounds A fraction/part of a whole pound

waterforcurriculum.co.uk

Money Year 2

Silver Coins

Coins that are silver.



5p 10p 20p 50p


waterforcurriculum.co.uk

Money Year 2

Pence

Pence is used in the U.K. 100 **pence** equals one pound.

The letter p is used to represent **pence**.



1p 2p 5p 10p 20p 50p

waterforcurriculum.co.uk

Money Year 2

Partitioned

To split up.
This is a method to separate the pounds and pence.



£5 and 10p £21 and 20p

£5 10p £20 21p

waterforcurriculum.co.uk

Money Year 2

Copper Coins

Coins that are copper.



1p 2p

waterforcurriculum.co.uk

L.O. Select Money

Fluency



Play the counting coins game at .

<https://www.topmarks.co.uk/money/coins-game>

Choose ordering – 6 coins.

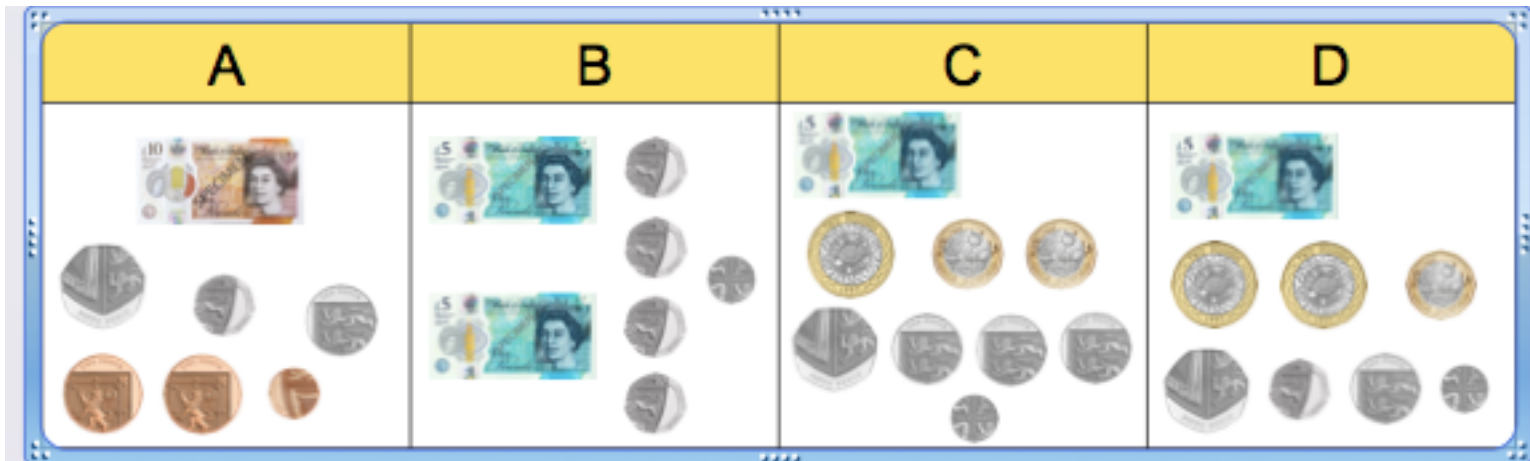
This is one of my favourite money games. Let me know how you like it.



L.O. Select Money

Anchor Task

Which one does not belong? Why?

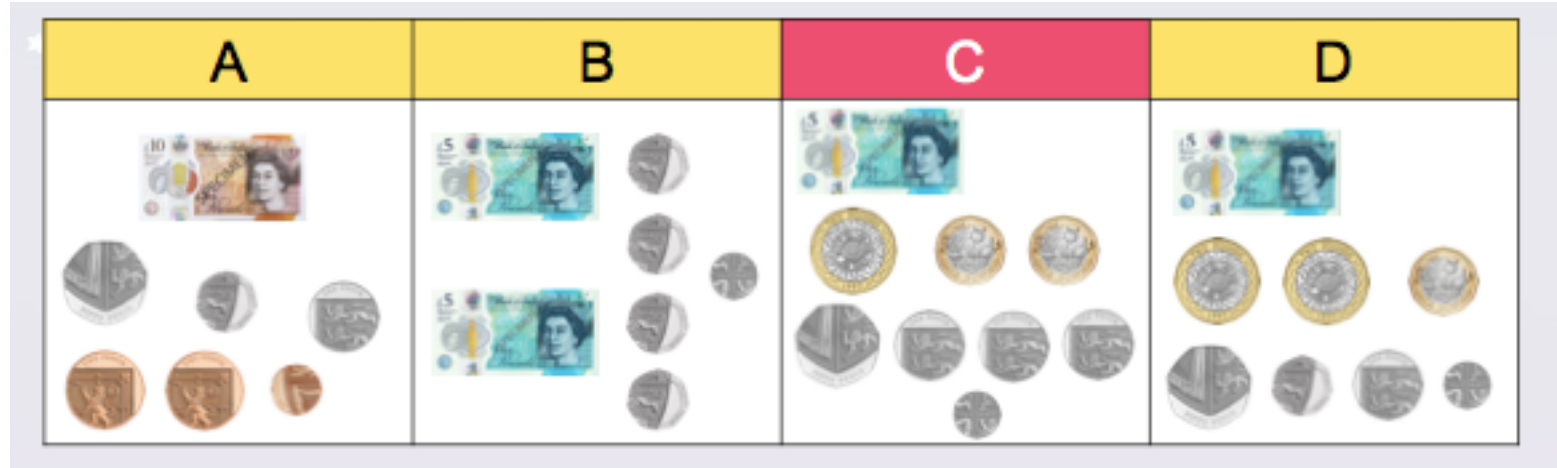


L.O. Select Money

Anchor Task:

Answer

Which one does not belong? Why?



C doesn't belong as it shows £9 and 85p, not £10 and 85p like the other amounts of money.

Explore

Select Money

Can you make these amounts using the coins shown?

56p



17p



19p

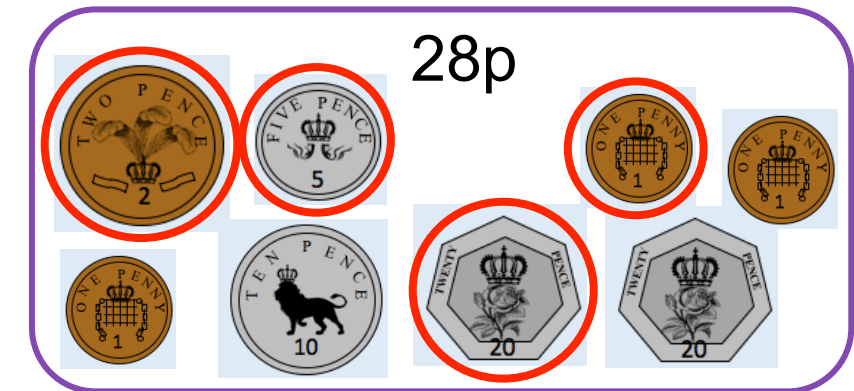
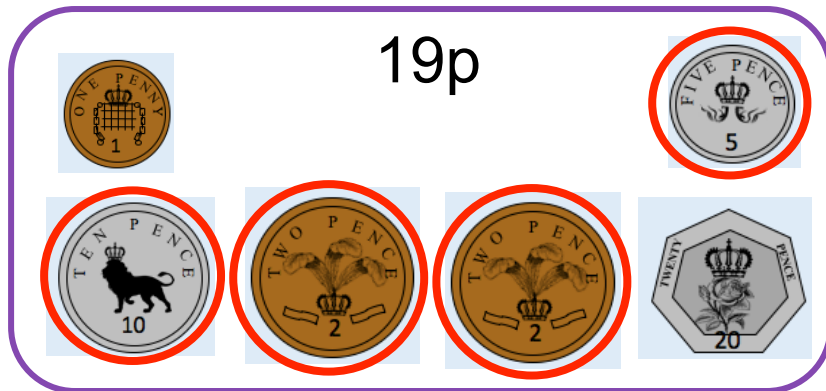
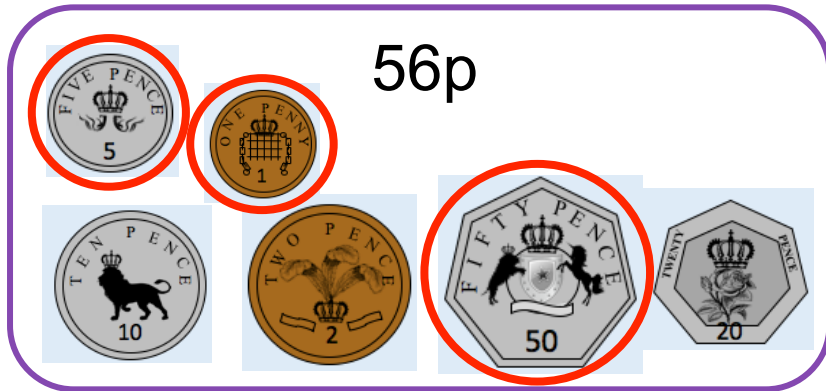


28p



Answers

Select Money



Explore

Select Money

Now choose the coins to make these amounts, but try to use the least number of coins you can.

15p



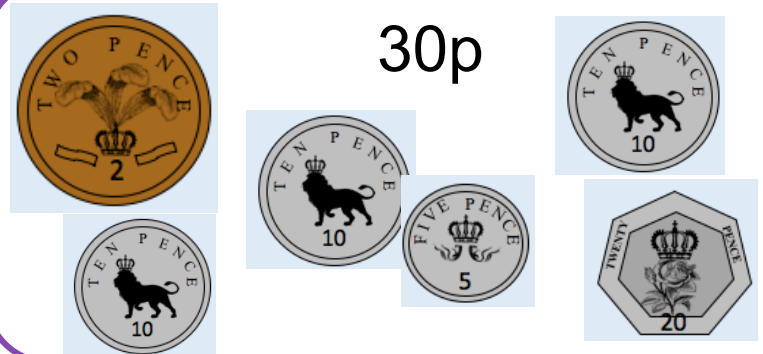
25p



6p



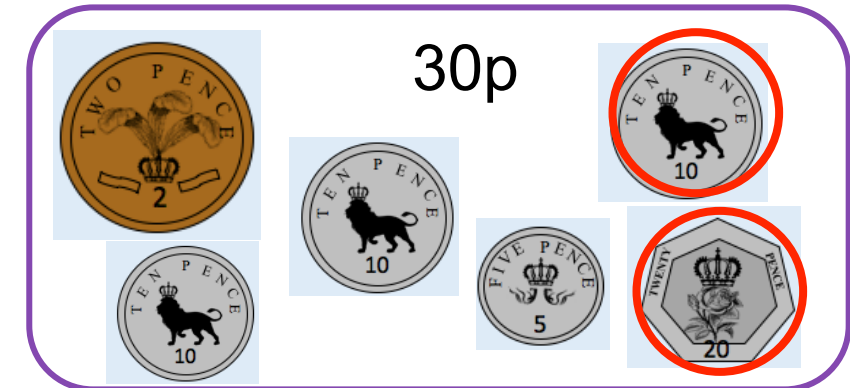
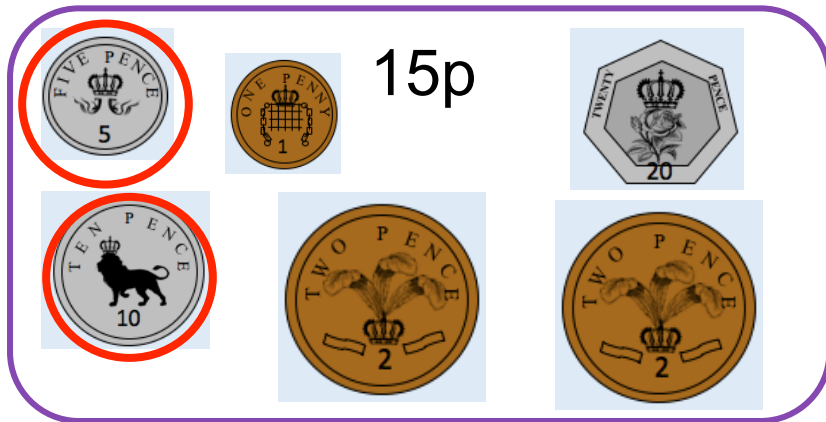
30p



Answer

Can you see how I have used the least number of coins?

In the first example, I could have used the 2 x 2ps and the 1p to make 5p but that would not have been the best way. The 5p is the most efficient way. Talk to your grown up about this.



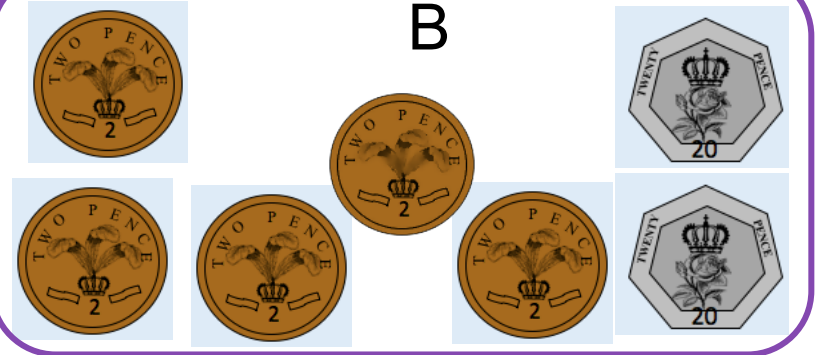
Guided Task *Select Money*

Which does not show 50p?

A



B



C



D



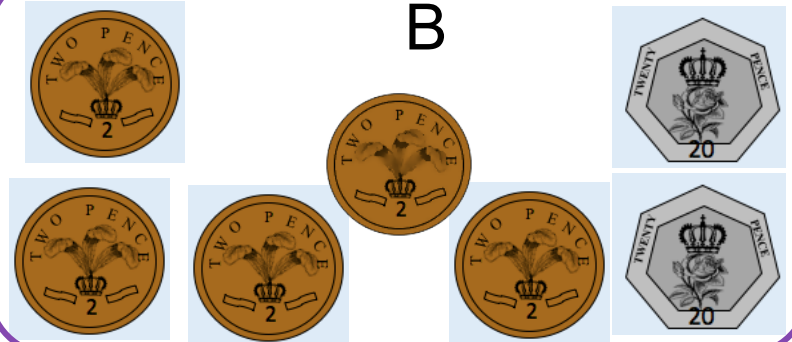
Answers

Select Money

A



B



C



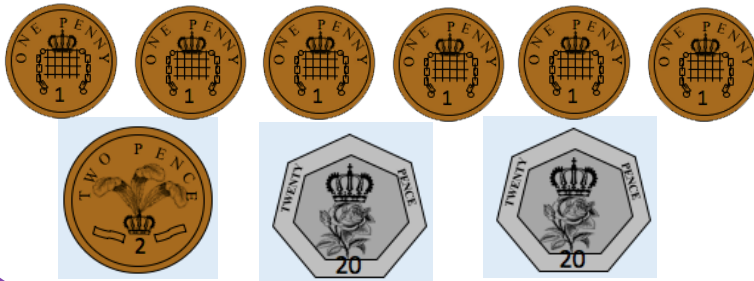
D



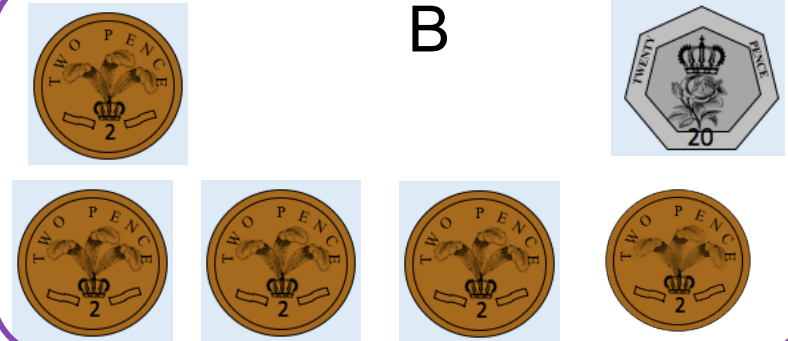
Guided Task Select Money

Which does not show 50p?

A



B



C

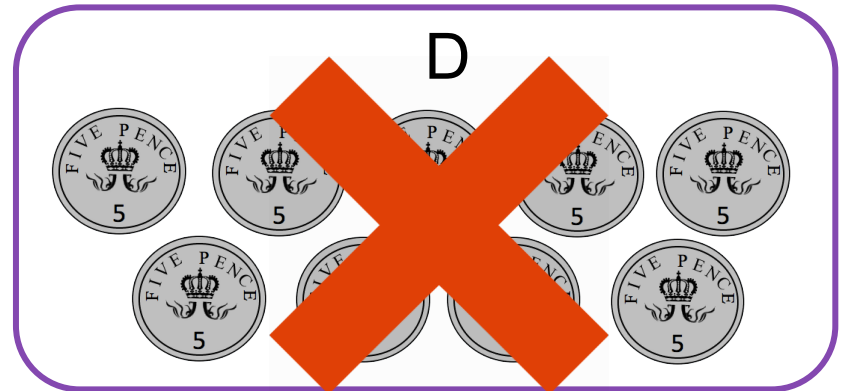
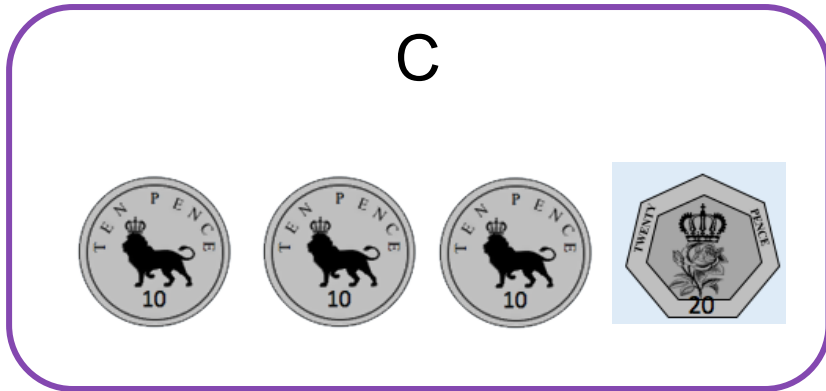
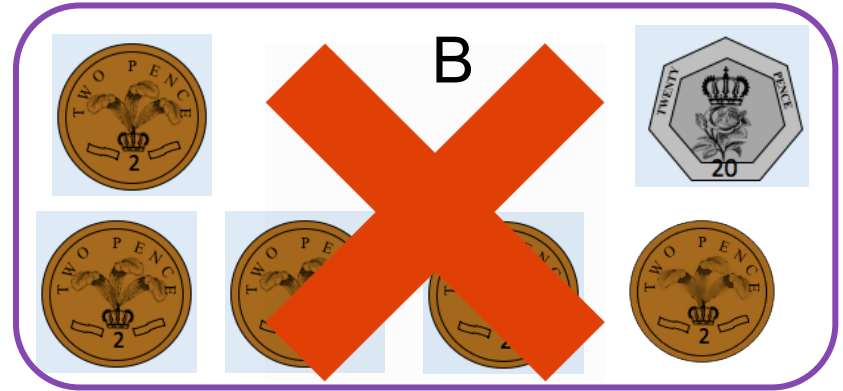
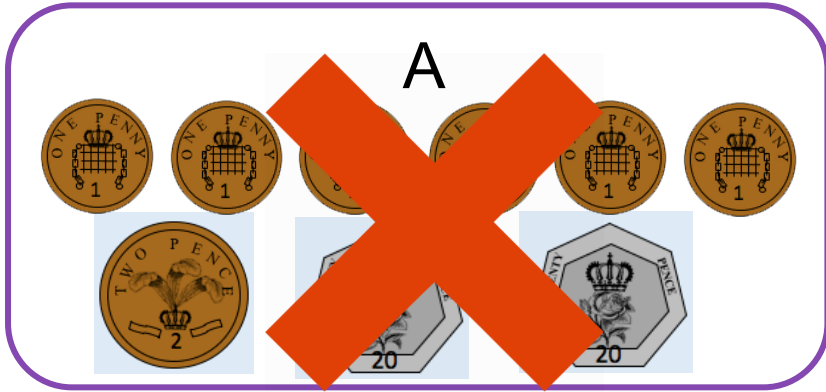


D



Answers

Select Money



Guided Task

Select Money

Draw money in the piggy bank to show the given amounts. Try to use the least amount of coins as possible

56p



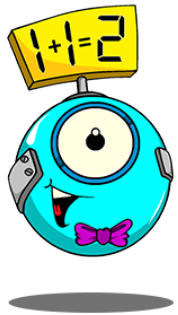
Answers

Possible solutions

56p



OR



There are lots of ways I could do this. But can you see how this way, uses the least amount of coins.

Guided Task

Select Money

Draw money in the piggy bank to show the given amounts. Try to use the least amount of coins and notes as possible

£10 and 21p



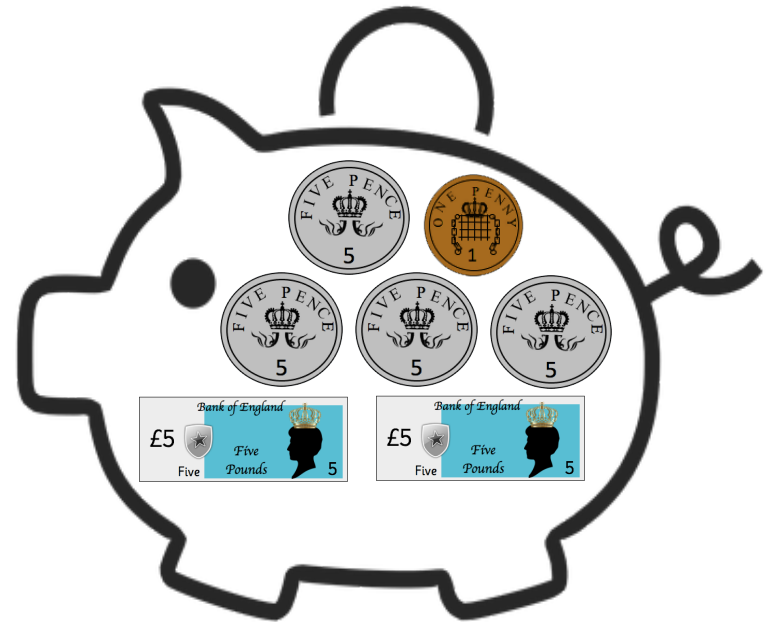
Answers

Possible solutions

£10 and 21p



OR



There are lots of ways I could do this but can you see how this example uses the least amount of coins and notes .

Guided Task

Select Money

Draw money in the piggy bank to show the given amounts. Try to use the least amount of coins and notes as possible.

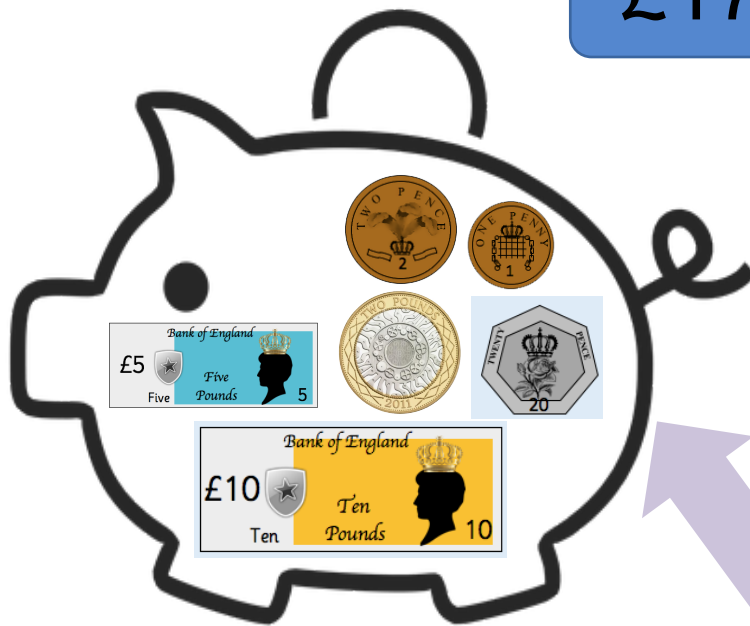
£17 and 23p



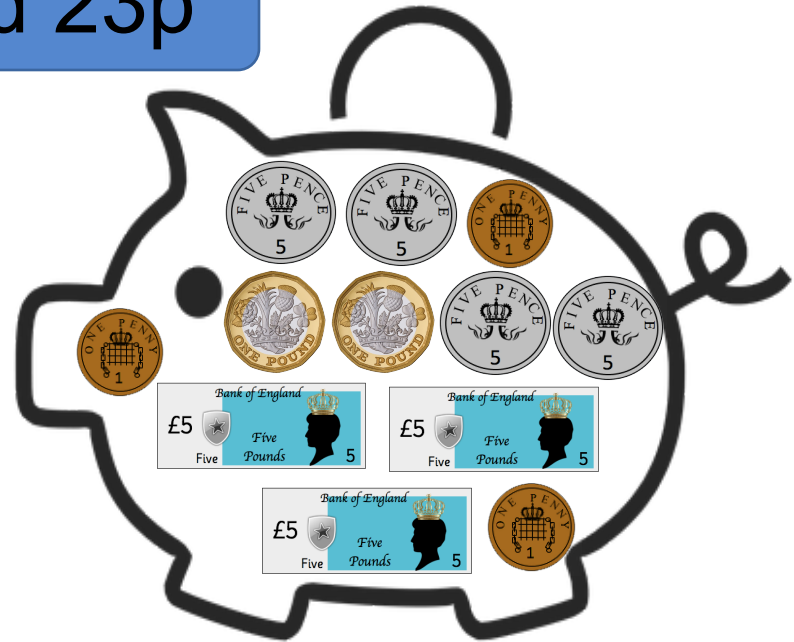
Answers

Possible solutions

£17 and 23p







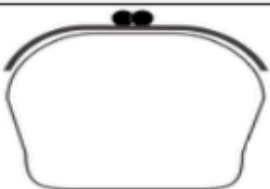
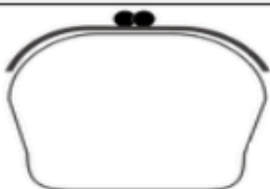



OR



There are lots of ways I could do this but can you see how this example uses the least amount of coins and notes .

1 Draw money in each of the purses to show the amounts.

a		b	
22p		36p	
c		d	
79p		93p	
e		f	
£3 and 20p		£5 and 70p	
g		h	
£6 and 42p		£10 and 90p	
i		j Are the amounts you have drawn made using the least amount of notes and coins? _____ _____	
£13 and 7p			

Independent Task









Draw the coins to make the amounts shown. **Try to use the least amount of coins or notes!**

Hint:

It's sometimes easier to just write the values of the coins rather than draw them:









$$32p = 20p + 10p + 2p$$

1 Draw money in each of the piggy banks to show the amounts.

a 	b 
7p	12p
c 	d 
22p	36p
e 	f 
£1 and 5p	£3 and 20p
g 	h 
£5 and 40p	£6 and 70p

If you're finding the task a little tricky, try these first.

1 Draw money in each of the piggy banks to show the amounts.

a 	b 
7p	12p
c 	d 
22p	36p
e 	f 
£1 and 5p	£3 and 20p
g 	h 
£5 and 40p	£6 and 70p



If you want a little extra challenge, why not have a go at these extra tasks.

Problem solving

Select Money

Put a tick (✓) next to the amounts that show more than 50p.

a)



b)



c)



d)



Problem solving

Select Money

Put a tick (✓) next to the amounts that show more than 50p.

a)



b)



c)



d)



Reasoning 1 Select Money

Esin says,



I have 53p in silver coins.

Do you agree?
Explain why.

Answer

Select Money

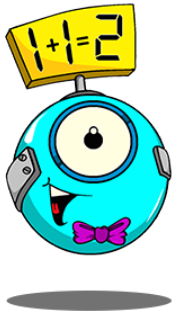
Esin says,



I have 53p in silver coins.

Do you agree?
Explain why.

No, because 3 pence can only be made with copper coins.



Reasoning 2

Select Money

The piggy bank shows £5 and 26p.

True or false? Explain how you know.



Answer

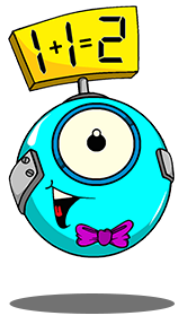
The piggy bank shows £5 and 26p.

True or false? Explain how you know.



False.

The piggy bank shows £4 and 26p.



Reasoning 3

Select Money

Circle the odd one out.

$$23\text{p} = 20\text{p}, 2\text{p}, 1\text{p}$$

$$25\text{p} = 20\text{p}, 5\text{p}$$

$$28\text{p} = 20\text{p}, 8\text{p}$$

Explain your answer.

Answer

Circle the odd one out.

23p = 20p, 2p, 1p

25p = 20p, 5p

28p = 20p, 8p

28p = 20p, 8p is because if you are using coins there is not an 8p coin. Children may give other answers.

Well done Year 2. You are brilliant.

Don't forget to send your work to me via our class e-mail address.

