

Year 2 Find the Total

Thursday 14th January 2021

Today we will
use our addition
skills to find
money totals.



Fluency

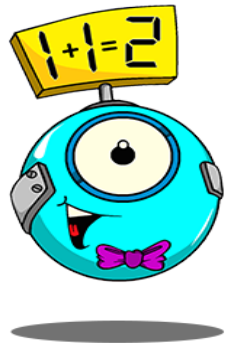
Use your knowledge of place value to complete these sentences.

fifty and four is _____.

20 and 3 is _____.

65 and 10 is _____.

$91 + 4 =$ _____.



Challenge:

Write a fact family (2 additions and 2 subtractions) for each calculation.

Can you create a fact family with 4 additions and 4 subtractions?

Answers

Use your knowledge of place value to complete these sentences.

fifty and four is **54**.

20 and 3 is **23**.

65 and 10 is **75**.

$91 + 4 = 95$.

Challenge Example Answer:

$$65 + 10 = 75$$

$$75 - 10 = 65$$

$$10 + 65 = 75$$

$$75 - 65 = 10$$

$$75 = 10 + 65$$

$$10 = 75 - 65$$

$$75 = 65 + 10$$

$$65 = 75 - 10$$

Vocabulary

Money Year 2

Money

Coins and notes used to pay for items.



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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

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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

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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.



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Decimal Point

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

£2.56

2 whole pounds Decimal point A fraction/part of a whole pound

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Money Year 2

Silver Coins

Coins that are silver.



5p 10p 20p 50p


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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

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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

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Money Year 2

Copper Coins

Coins that are copper.



1p 2p

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Anchor Task

James says, "The bigger a coin is the more it is worth."



Is James' statement always, sometimes or never true?
Explain your answer.

Talk to your grown up about your ideas.



Answers

James says, "The bigger a coin is the more it is worth."



Is James' statement always, sometimes or never true?
Explain your answer.

James' statement is sometimes true – for example, a 2 p coin is larger than a 10 p coin, a 5 p coin and even a 20 p coin; however, a 10 p coin is bigger than a 1 p coin, and a 20 p coin is bigger than a 5 p coin.

Review...

I know that....



$$64 + 21 = 85$$

How many different ways could I prove it?

Prove it means showing that my calculation is correct by using e.g. column method, partitioning into tens and ones and then adding the tens and ones, using a number line, using base ten or a place value chart.

My ideas



$$64 + 21 = 85$$

Were your ideas the same as mine?

Tens	Ones
10 10 10	1 1 1
10 10 10	1
10 10	1
80	5
$80 + 5 = 85$	

$64 + 21 = 85$

$64 +$	21	
	<u> </u>	
	85	

6 tens + 2 tens = 8 tens
4 ones + 1 one = 5 ones
8 tens = 80 80 + 5 = 85
5 ones = 5 80 +
 5 +
 85

	::
	.

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	::
80 + 5 = 85	

Explore

Find the totals of these pounds and pence.

thirty pounds

twenty six pence

=

four pounds

two pence

=

eleven pounds

nineteen pence

=

Answers

Find the totals of these pounds and pence. Use the £ in your answer

thirty pounds

twenty six pence

=

£30 and 26p

four pounds

two pence

=

£4 and 2p

eleven pounds

nineteen pence

=

£11 and 19p

Explore

How can we complete the table

pounds	pence	total
£2	15 p	£2 and 15 p
£4	42 p	
	37 pence	£7 and 37 pence
£12		£12 and 84 p
		£18 and 73 pence
	91 p	£21 and 91 p

Hint:
If the pounds or pence are missing, look at the total to help you.

Answers

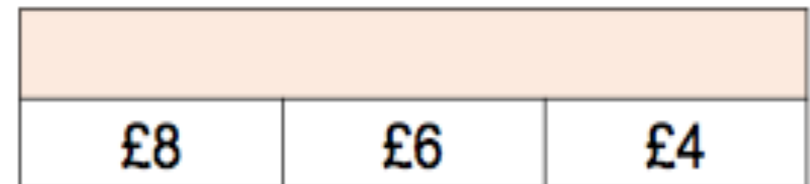
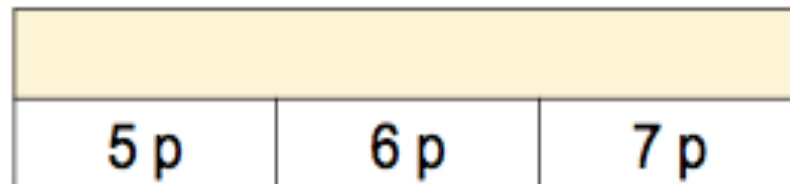
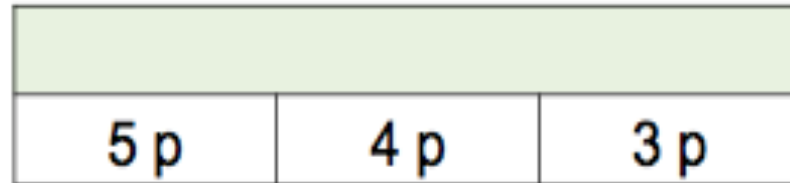
pounds	pence	total
£2	15 p	£2 and 15 p
£4	42 p	£4 and 42 p
£7	37 pence	£7 and 37 pence
£12	84 p	£12 and 84 p
£18	73 pence	£18 and 73 pence
£21	91 p	£21 and 91 p

Did you do what I did? To answer question 3 I could see the total was £7 and 37 pence. The 37 pence had already been added to the table so that meant I only had to fill in the £7.

Explore

How can we complete the bar models?

Complete the bar models below:



Remember a bar model is similar to a part whole diagram – the parts add up to the whole.

Answers

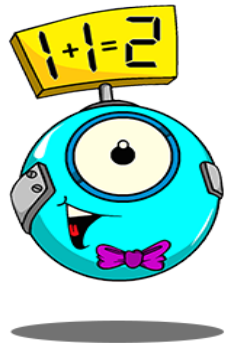
How can we complete the bar models

12 p		
5 p	4 p	3 p

£12		
£2	£4	£6

18 p		
5 p	6 p	7 p

£18		
£8	£6	£4



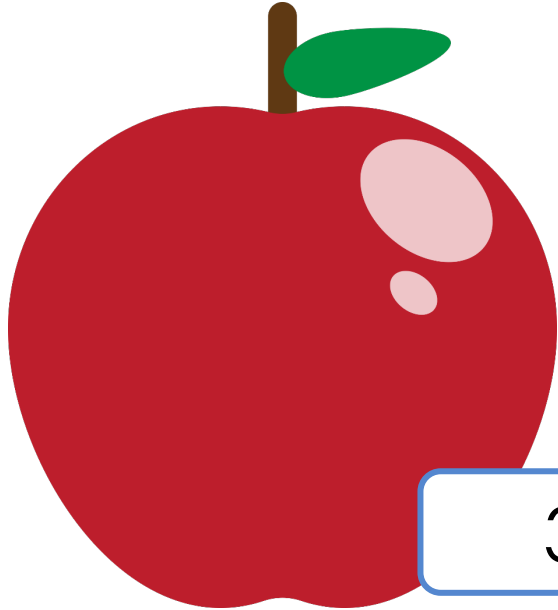
Challenge:

Create some examples of your own using pounds or pence.

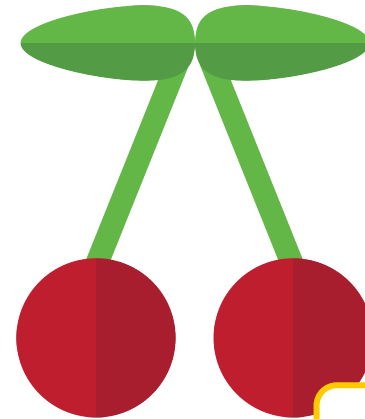
Can you create some examples using pounds and pence together.

Guided Practice

I want to buy both pieces of fruit.



36p

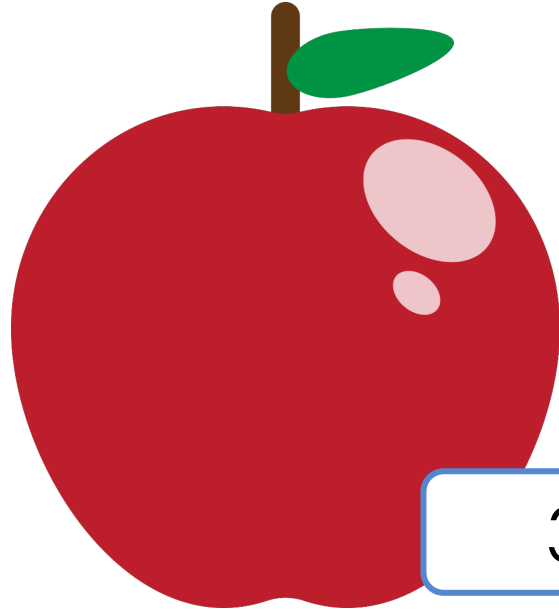


20p

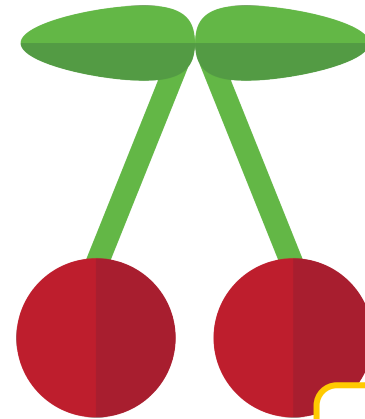
How can I work out how much it will cost?

Guided Practice

I want to buy both pieces of fruit.



36p



20p

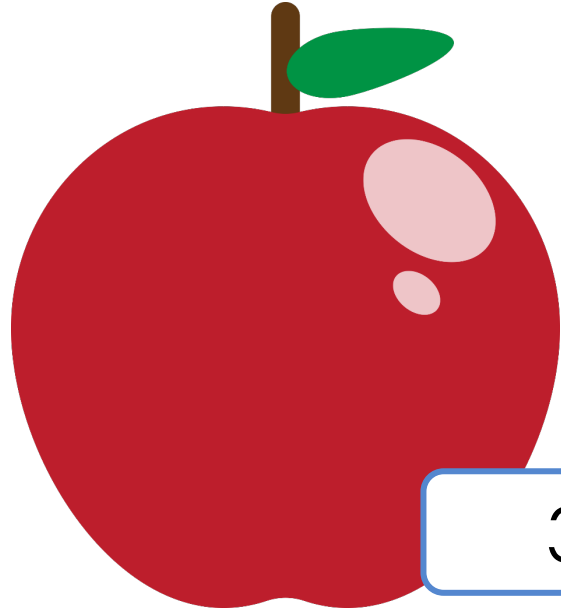
Hint:

Use column addition or a number line to find the answer.

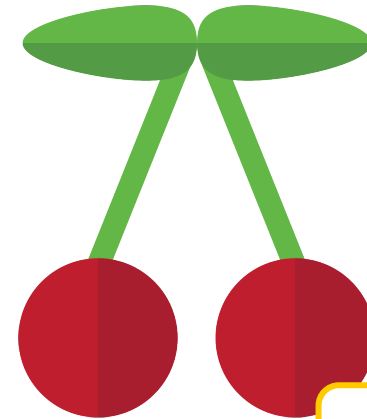
In this calculation, both items cost pence. That makes it easier to add because we are adding the same type of units. In this case we are adding two lots of pennies (pence).

Let's learn

When the units (pounds or pence) are the same we can use our adding skills.



36p



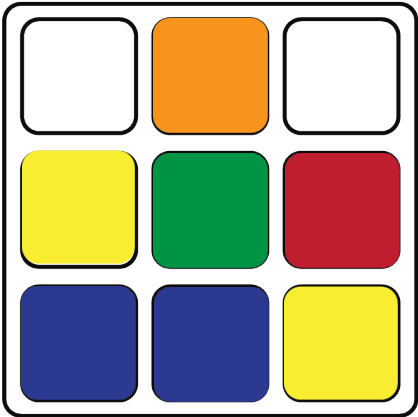
20p

36p add 20p equals 56p

$$\begin{array}{r} 36 \\ \underline{20} + \\ \underline{56} \end{array}$$

Guided Practice

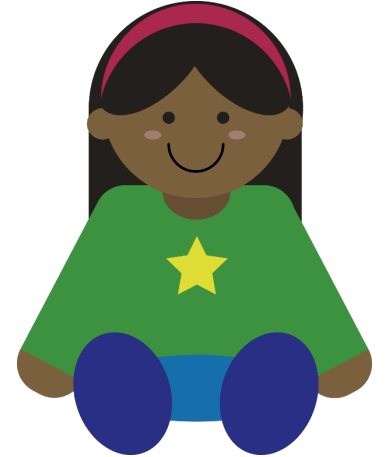
Find the total of the 3 items.



£4



£9



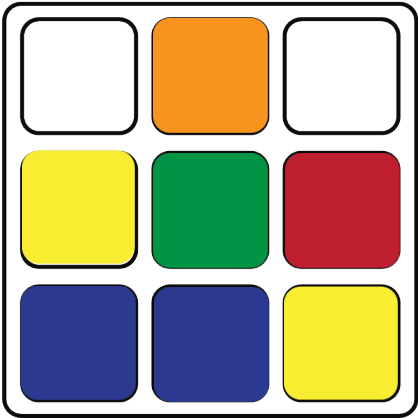
£6

_____ add _____ add _____ equals _____.

In this calculation, both items cost pounds. That makes it easier to add because we are adding the same type of units. In this case we are adding three lots of pounds.

Guided Practice

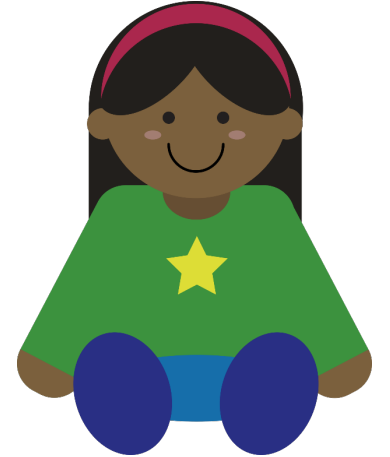
Find the total of the 3 items.



£4



£9



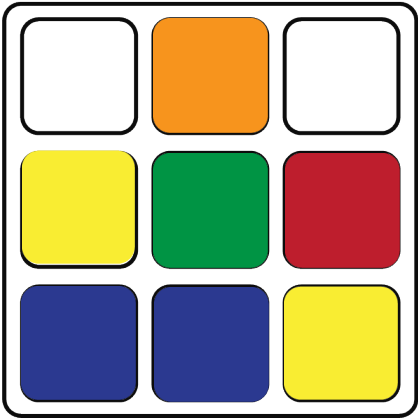
£6

£4 add £9 add £6 equals _____.

How could we make this easier to add? Can you see a number bond that might help?

Guided Practice

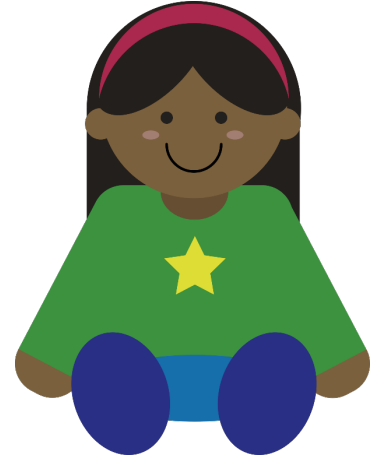
Find the total of the 3 items.



£4



£9



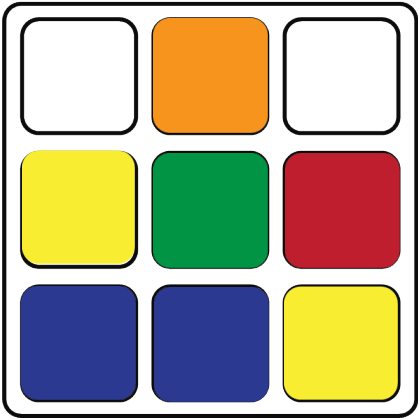
£6

£4 add £6 add £9 equals _____.

We know additions can be done in any order so let's rearrange our addends (the numbers we are adding).

Guided Practice

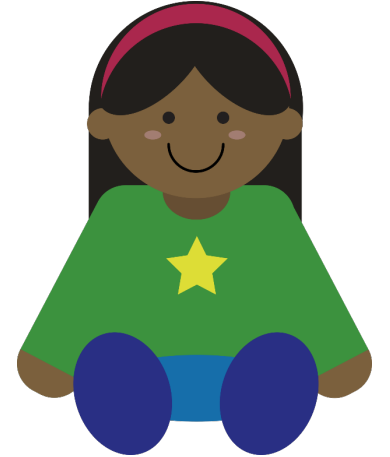
Find the total of the 3 items.



£4



£9

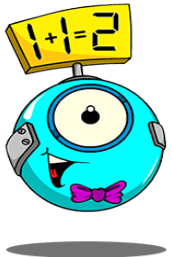


£6

£4 add £6 add £9 equals £19.

$$£4 + £6 = £10$$

$$£10 + £9 = £19$$

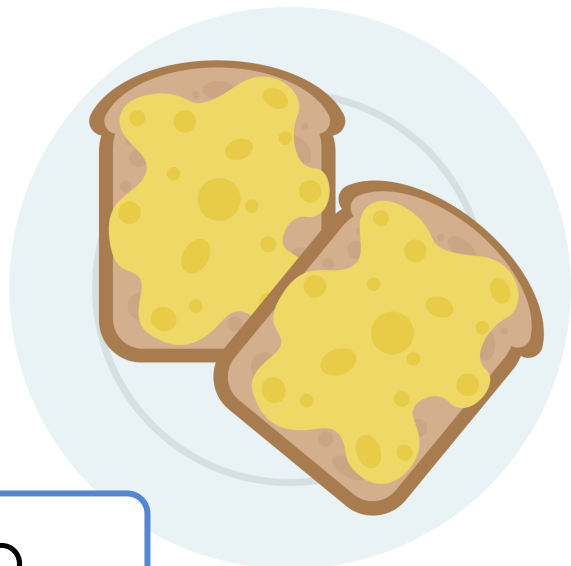


Challenge:

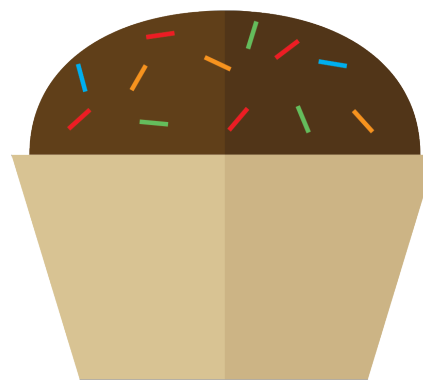
Create some examples of your own using pounds or pence.

Independent Practice

How would you add these amounts?



52p



25p

What's most efficient way to add them?

Talk to your grown up about your ideas.



Reasoning



Using the coins and notes on the right, I can make an amount less than £40 but more than £30.



How many different ways can you find to use the coins and notes on the right to make an amount more than £30, but less than £40?

You can use each coin or note a maximum of 4 times per creation.

Reasoning



Using the coins and notes on the right, I can make an amount less than £40 but more than £30.



Multiple solutions, for example, a £20 note, a £10 note, a £5 note, a £2 coin and a £1 coin would make a total of £38 – less than £40 but more than £30.

How many solutions did you find?

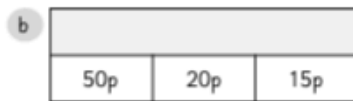
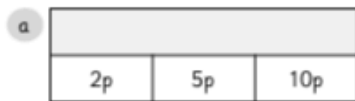
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Independent Task

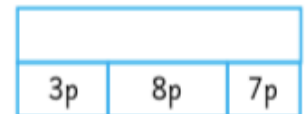
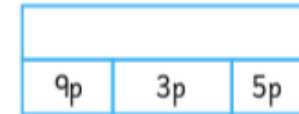
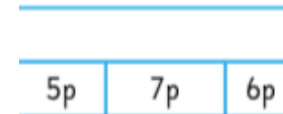
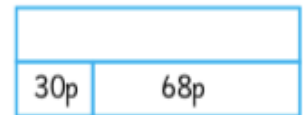
1 Complete the table.

Pounds	Pence	Total
£1	25p	£_____ and _____p
£2	_____p	£_____ and 60p
£_____	_____p	£3 and 90p
£4	22p	£_____ and _____p
£8	56p	£_____ and _____p
£_____	29p	£10 and _____p
£_____	_____p	£12 and 30p
£15	_____p	£_____ and 90p



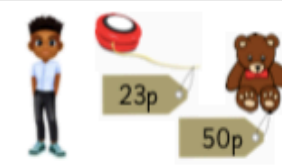


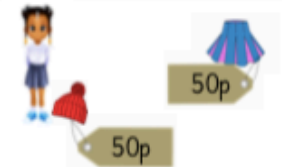
2 Complete the bar models.



Find the total of the bar models.



Look at the items the children bought.
How much did each child spend?

 <p>_____ pence</p>	 <p>_____ pounds</p>	 <p>_____ pence</p>
 <p>_____ pounds</p>	 <p>_____ pence</p>	 <p>_____ pence</p>


Answers on page 30

In case you're finding things a bit tricky...

Complete the table.

Pounds	Pence	Total
£1	5p	£_____ and _____p
£2	25p	£_____ and _____p
£2	70p	£_____ and _____p
£3	95p	£_____ and _____p
£_____	15p	£4 and _____p
£_____	_____p	£8 and 10p
£_____	_____p	£12 and 50p
£_____	_____p	£15 and 25p
£_____	_____p	£18 and 75p
£5	_____p	£_____ and 45p
£_____	30p	£6 and _____p
£7	_____p	£_____ and 60p


1 Tam buys an apple, a banana and an orange.



20p 30p 20p

How much does she spend? £_____ and _____p.


2 Gina buys some juice, milk and a loaf of bread.



£1 50p 40p

How much does she spend? £_____ and _____p.


3 Mo buys a pair of socks, a hat and a pair of gloves.



50p £2 £1 and 10p

How much does he spend? £_____ and _____p.

4 Ben buys a tape dispenser, a calculator and a pair of scissors.



£1 and 50p £2 50p

How much does he spend? £_____ and _____p.

Answers on page 31

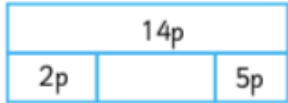
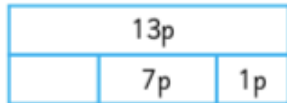
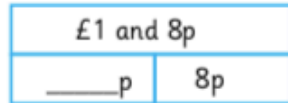
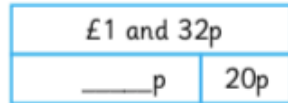
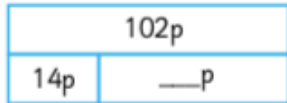
Extra Challenge

What is the missing amount?

Pounds	Pence	?	Total
£5	66p		£9 and 66p
£3	24p		£3 and 56p
£10	11p		£14 and 11p
£46	70p		£47 and 0p

Pounds	Pence	?	Total
£7	32p		£7 and 99p
£2	67p		£41 and 67p
£45	54p		£88 and 54p
£56	48p		£100 and 48p

Find the total of the bar models.



Look at the items the children bought.
How much did each child spend?

___ pence

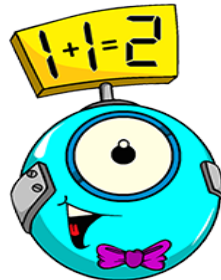
___ pounds

___ pence

___ pounds

___ pence

___ pence

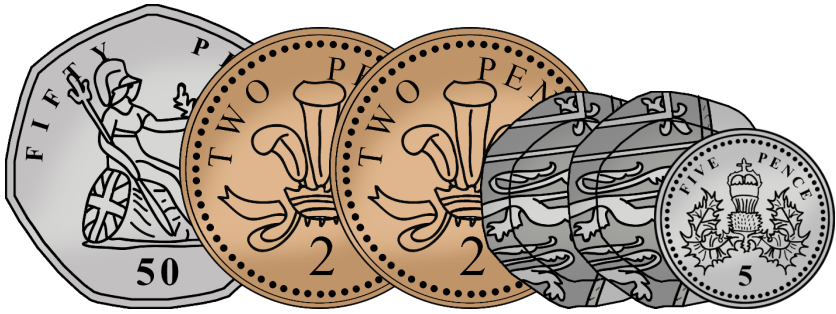


If you want to try something a little more challenging, try these activities. Remember, they are optional- that means you should only do them if you want to.

Answers on page 31

Exit task – Dong Nao Jin

Which 2 items could you buy with the money you have?



41p



27p



72p



46p



Challenge:

Can you work out whether you would have any change.

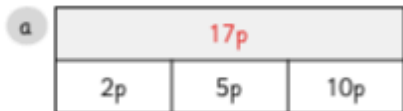
Answers on page 30

ANSWERS

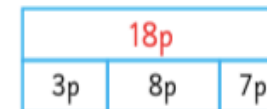
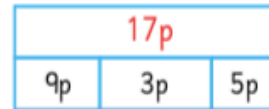
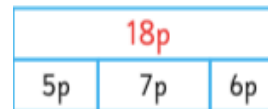
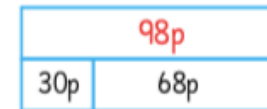
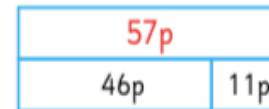
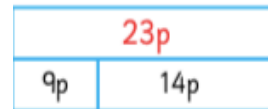
1 Complete the table.

Pounds	Pence	Total
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£2	<u>60</u> p	£ <u>2</u> and 60p
£ <u>3</u>	<u>90</u> p	£3 and 90p
£4	22p	£ <u>4</u> and <u>22</u> p
£8	56p	£ <u>8</u> and <u>56</u> p
£ <u>10</u>	29p	£10 and <u>29</u> p
£ <u>12</u>	<u>30</u> p	£12 and 30p
£15	<u>90</u> p	£ <u>15</u> and 90p



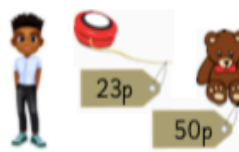



2 Complete the bar models.



Find the total of the bar models.



Look at the items the children bought.
How much did each child spend?


 <p><u>51</u> pence</p>	 <p><u>91</u> pounds</p>	 <p><u>73</u> pence</p>
 <p><u>23</u> pounds</p>	 <p><u>68</u> pence</p>	 <p><u>100</u> pence</p>

Exit Task Answers:
You have 99p.
You can buy items that cost:
72p+ 27p
41p+46p
41p+27p
46p+27p

Complete the table.

Pounds	Pence	Total
£1	5p	£ <u>1</u> and <u>5</u> p
£2	25p	£ <u>2</u> and <u>25</u> p
£2	70p	£ <u>2</u> and <u>70</u> p
£3	95p	£ <u>3</u> and <u>95</u> p
£ <u>4</u>	15p	£4 and <u>15</u> p
£ <u>8</u>	<u>10</u> p	£8 and 10p
£ <u>12</u>	<u>50</u> p	£12 and 50p
£ <u>15</u>	<u>25</u> p	£15 and 25p
£ <u>18</u>	<u>75</u> p	£18 and 75p
£5	<u>45</u> p	£ <u>5</u> and 45p
£ <u>6</u>	30p	£6 and <u>30</u> p
£7	<u>60</u> p	£ <u>7</u> and 60p


1 Tam buys an apple, a banana and an orange.



20p 30p 20p

How much does she spend? £ 0 and 70 p.


2 Gina buys some juice, milk and a loaf of bread.



£1 50p 40p

How much does she spend? £ 1 and 90 p.


3 Mo buys a pair of socks, a hat and a pair of gloves.



50p £2 £1 and 10p

How much does he spend? £ 3 and 60 p.

4 Ben buys a tape dispenser, a calculator and a pair of scissors.



£1 and 50p £2 50p

How much does he spend? £ 4 and 0 p.

What is the missing amount?

Pounds	Pence	?	Total
£5	66p	£4	£9 and 66p
£3	24p	32p	£3 and 56p
£10	11p	£4	£14 and 11p
£46	70p	30p	£47 and 0p

Pounds	Pence	?	Total
£7	32p	67p	£7 and 99p
£2	67p	£39	£41 and 67p
£45	54p	£43	£88 and 54p
£56	48p	£44	£100 and 48p

Find the total of the bar models.

102p	£1 and 32p	£1 and 8p
14p <u>88</u> p	<u>112</u> p 20p	<u>100</u> p 8p
13p	14p	19p
<u>5</u> p 7p 1p	2p <u>7</u> p 5p	<u> </u> 8p

multiple answers

Look at the items the children bought. How much did each child spend?

 <p><u>74</u> pence</p>	 <p><u>83</u> pounds</p>	 <p><u>88</u> pence</p>
 <p><u>55</u> pounds</p>	 <p><u>90</u> pence</p>	 <p><u>88</u> pence</p>