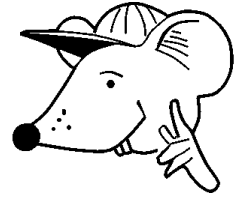




MATHEMATICS



N.S. Yr. 2 P.69

Problems involving money

Equipment

Paper, pencil, ruler
Coins are very useful.

MathSphere

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Concepts

The year 2 work builds on the experiences encountered in year 1. Children should continue to use real or plastic coins in practical contexts, setting up a shop, paying and giving change from small amounts eg 4p change from 10p.

All coins up to £1 are introduced during year 2 and children should be able to give change from amounts up to 20p.

When using the worksheets it is advisable to have real coins or plastic coins to place over the printed versions so that children can pick up the coins as they count.

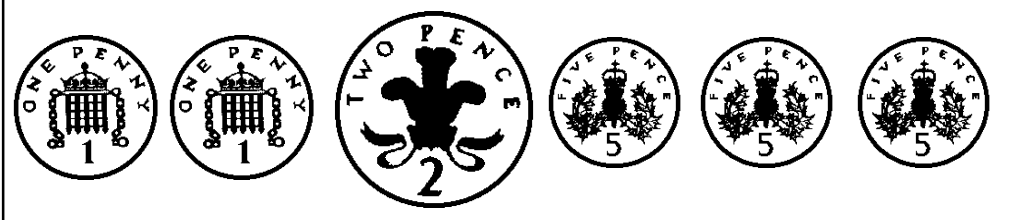
When counting a number of coins it should be emphasised that it is easier to start with the largest coins and work down to the smallest - this is not necessarily the way the coins have been set out on paper.

The decimal point is introduced to separate whole pounds from pence and amounts can be converted from pounds to pence and vice versa.

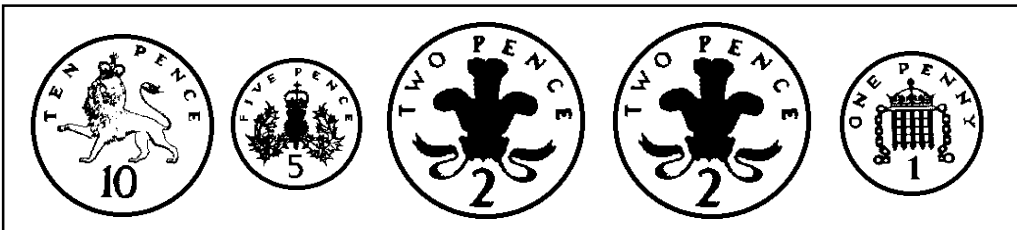
During more open ended exercises, such as finding all the possible amounts if three coins out of four are taken, checking for repeat answers should be encouraged. The children could also be shown how to work in a systematic way eg all the possibilities which have a 2p piece in them etc.

How much?

1.



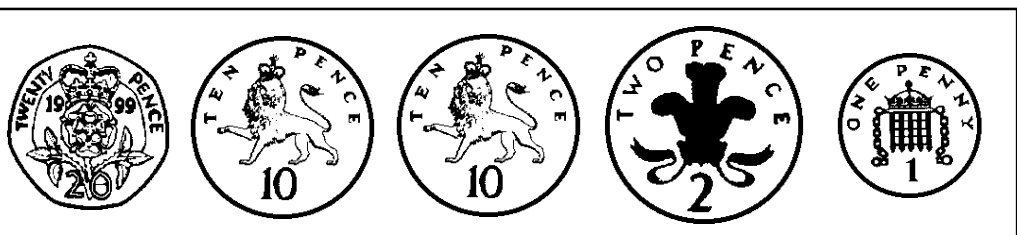
2.



3.



4.



5.



How much?

1.



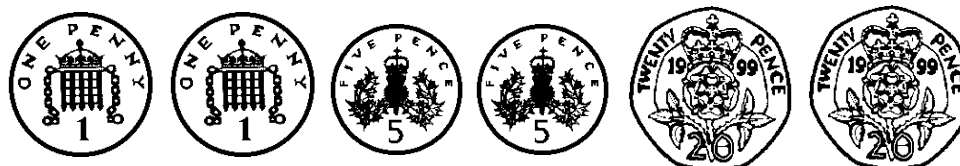
2.



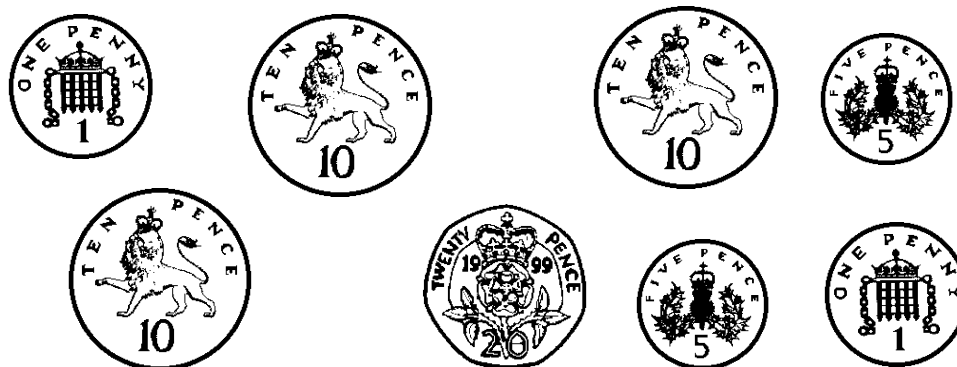
3.




































4.



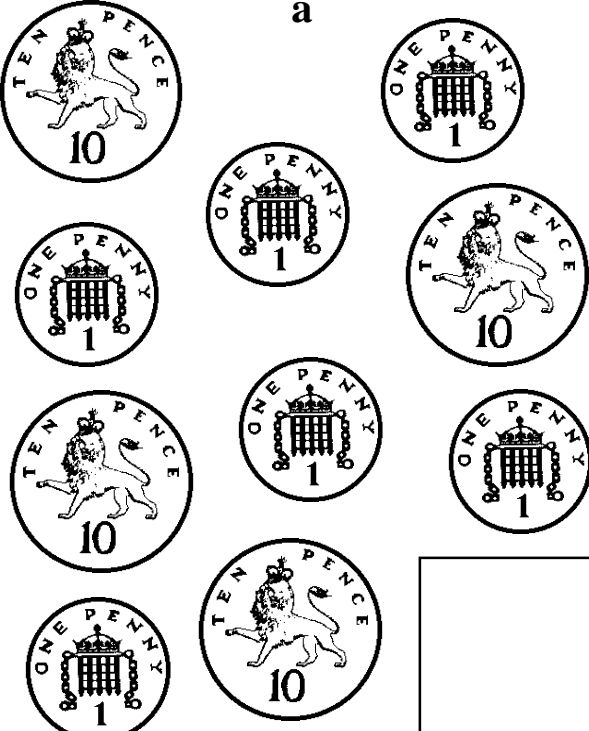
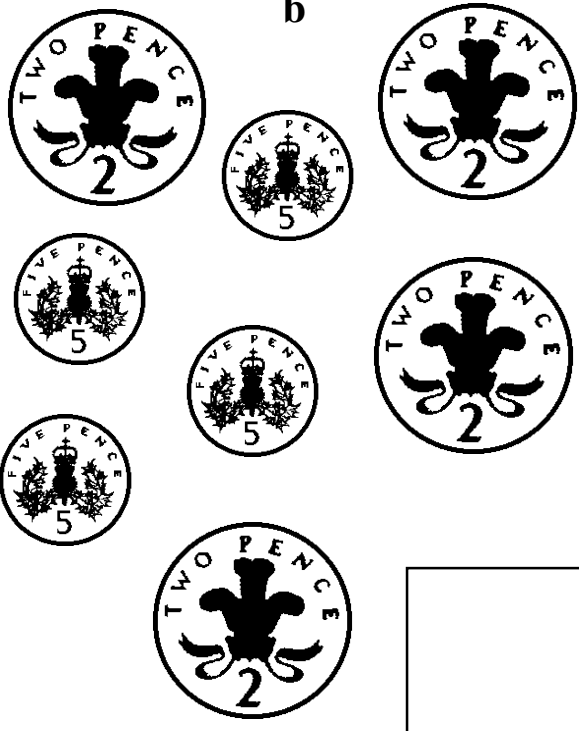
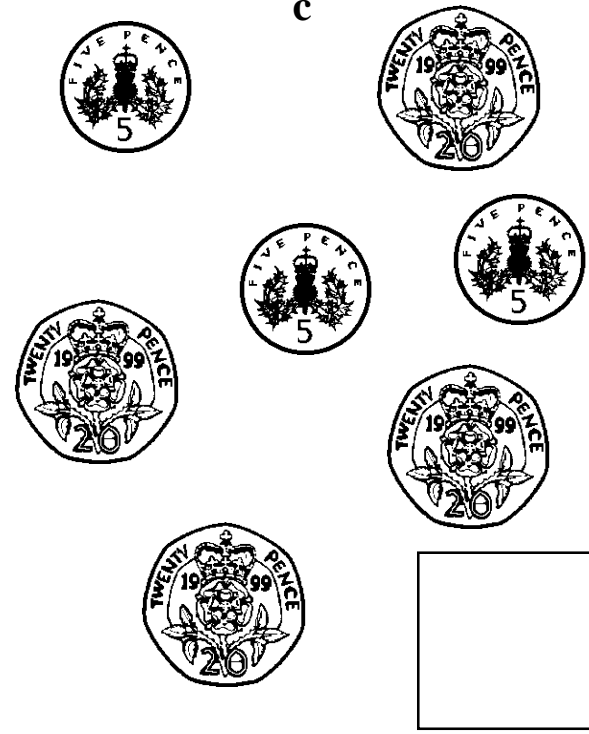

5.



How much?

<p style="text-align: center;">a</p> <div style="display: flex; flex-wrap: wrap; justify-content: space-around;"> <div style="text-align: center;"></div> <div style="text-align: center;"></div> <div style="text-align: center;"></div> </div> <div style="display: flex; flex-wrap: wrap; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;"></div> <div style="text-align: center;"></div> </div> <div style="display: flex; flex-wrap: wrap; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;"></div> <div style="text-align: center;"></div> </div> <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div style="text-align: center;"></div> <div style="border: 1px solid black; width: 100px; height: 70px; margin-left: auto;"></div> </div>	<p style="text-align: center;">b</p> <div style="display: flex; justify-content: space-around; margin-bottom: 20px;">   </div> <div style="display: flex; flex-wrap: wrap; justify-content: space-around; margin-bottom: 20px;"> <div style="text-align: center;"></div> <div style="text-align: center;"></div> <div style="text-align: center;"></div> </div> <div style="display: flex; flex-wrap: wrap; justify-content: space-around; margin-bottom: 20px;"> <div style="text-align: center;"></div> <div style="text-align: center;"></div> </div> <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div style="text-align: center;"></div> <div style="border: 1px solid black; width: 100px; height: 70px; margin-left: auto;"></div> </div>
<p style="text-align: center;">c</p> <div style="display: flex; justify-content: space-around; margin-bottom: 20px;">   </div> <div style="display: flex; flex-wrap: wrap; justify-content: space-around; margin-bottom: 20px;"> <div style="text-align: center;"></div> <div style="text-align: center;"></div> </div> <div style="display: flex; flex-wrap: wrap; justify-content: space-around; margin-bottom: 20px;"> <div style="text-align: center;"></div> <div style="text-align: center;"></div> </div> <div style="display: flex; flex-wrap: wrap; justify-content: space-around; margin-bottom: 20px;"> <div style="text-align: center;"></div> <div style="text-align: center;"></div> </div> <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div style="text-align: center;"></div> <div style="border: 1px solid black; width: 100px; height: 70px; margin-left: auto;"></div> </div>	<p style="text-align: center;">d</p> <div style="display: flex; justify-content: space-around; margin-bottom: 20px;">   </div> <div style="display: flex; flex-wrap: wrap; justify-content: space-around; margin-bottom: 20px;"> <div style="text-align: center;"></div> <div style="text-align: center;"></div> <div style="text-align: center;"></div> </div> <div style="display: flex; flex-wrap: wrap; justify-content: space-around; margin-bottom: 20px;"> <div style="text-align: center;"></div> <div style="text-align: center;"></div> </div> <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div style="text-align: center;"></div> <div style="border: 1px solid black; width: 100px; height: 70px; margin-left: auto;"></div> </div>

How much?

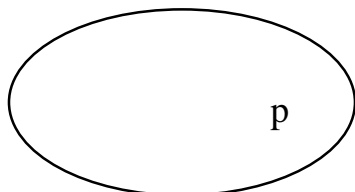
<p>a</p>  <p>10p, 1p, 1p, 10p, 1p, 10p, 1p, 10p</p> <div data-bbox="603 936 783 1115"></div>	<p>b</p>  <p>2p, 5p, 2p, 5p, 5p, 5p, 2p</p> <div data-bbox="1238 943 1418 1122"></div>
<p>c</p>  <p>5p, 20p, 5p, 5p, 20p, 20p, 20p</p> <div data-bbox="603 1715 783 1895"></div>	<p>d</p>  <p>10p, 2p, 1p, 2p, 20p, 1p</p> <div data-bbox="1238 1715 1418 1895"></div>

Money.

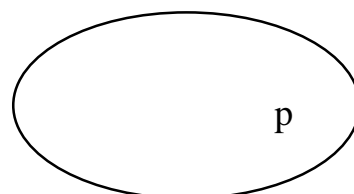
What total amounts can I make with any two of these coins?



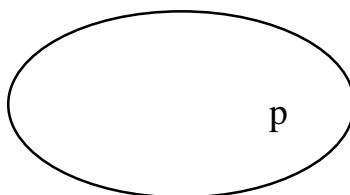
Write your answers in the shapes below.
(You can have the same coin twice.)



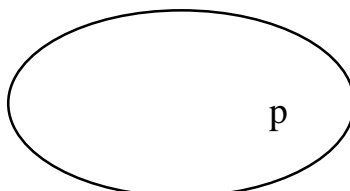
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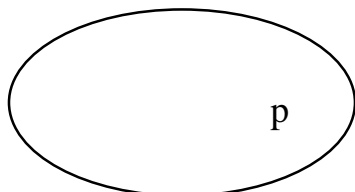
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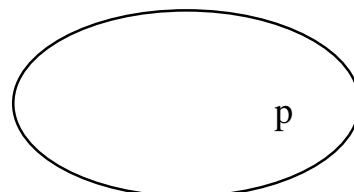
p



p



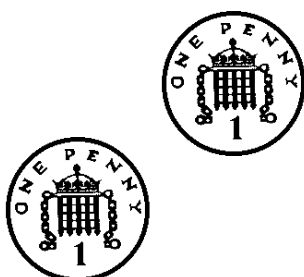
p



p

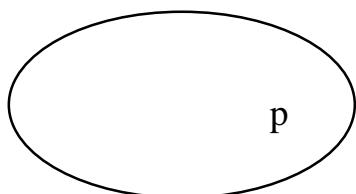
Money.

What total amounts can I make with any two of these coins?

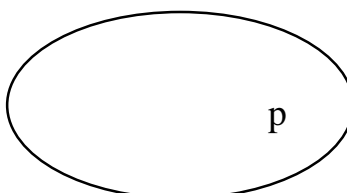


Write your answers in the shapes below.

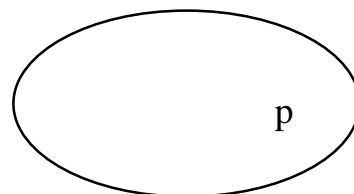
Remember: you can use the same value coin twice.



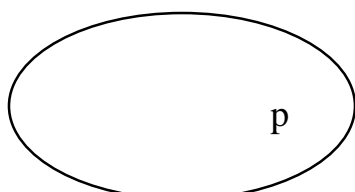
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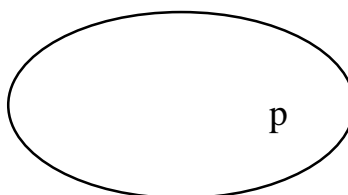
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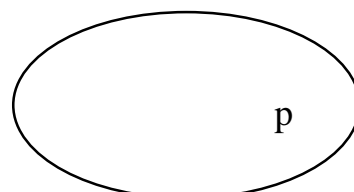
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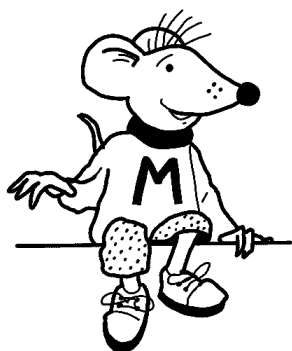
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p



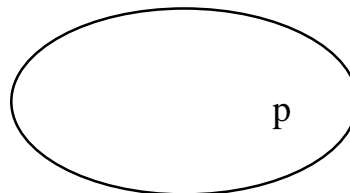
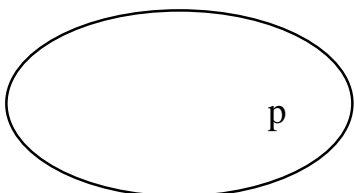
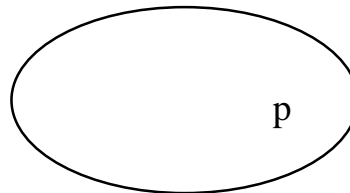
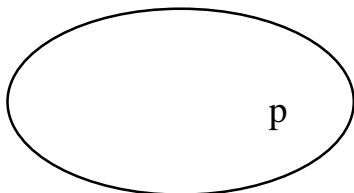
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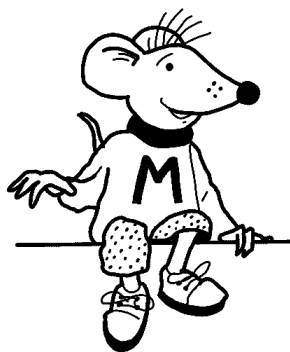
Money.

I have got three coins out of the coins shown below.

How much might I have?

Put all the possible answers in the shapes below. You may not be able to use them all.

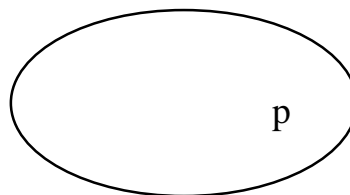
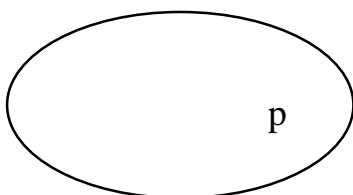
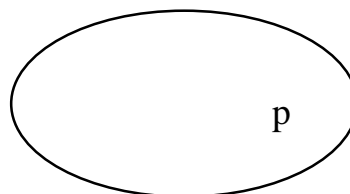
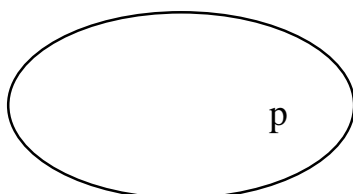


Money.

Now I have got three out of these coins.

How much might I have?

Put all the possible answers in the shapes below.

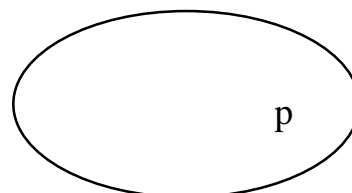
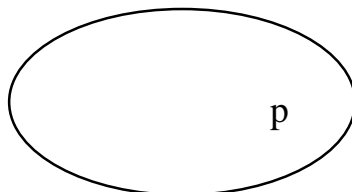
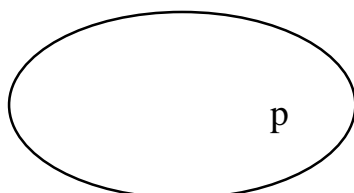
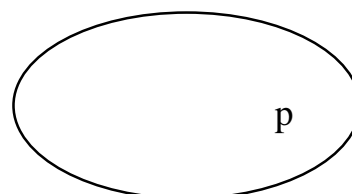
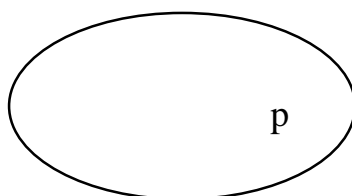
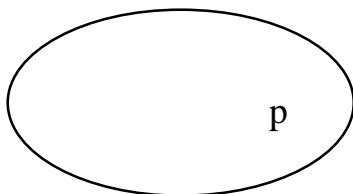


Money.

I've got 3 of these coins.

How much could I have?

Put all the possible answers in the shapes below.

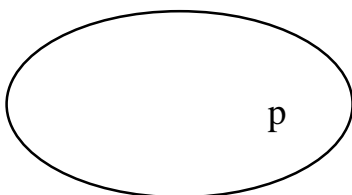
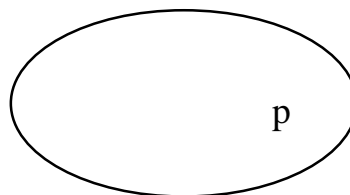
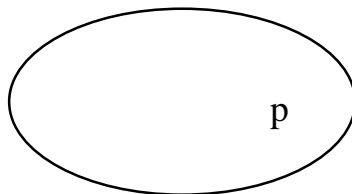
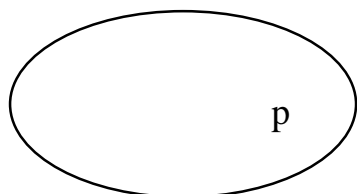
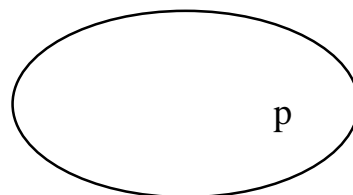
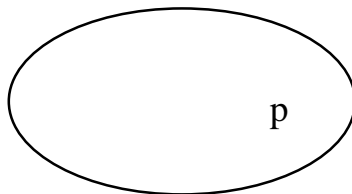
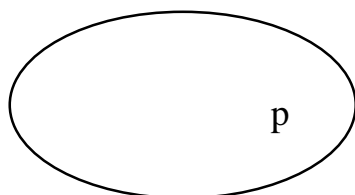
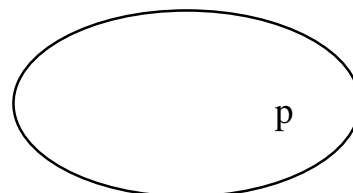
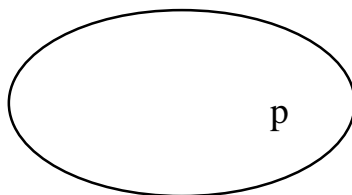
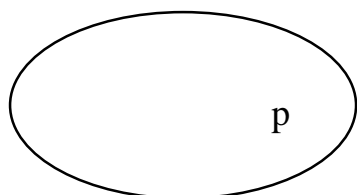


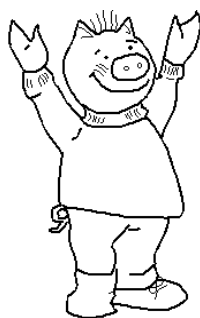
Money.

I've got 3 of these coins.

How much could I have?

Put all the possible answers in the shapes below.



**Change from 20p**

If I spend these amounts, how much change will I get from 20p?



1. 2p

 p

2. 14p

 p

3. 5p

 p

4. 13p

 p

5. 19p

 p

6. 6p

 p

7. 1p

 p

8. 15p

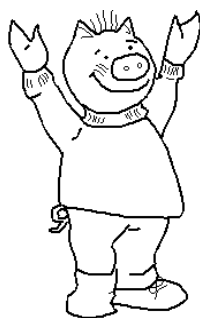
 p

9. 7p

 p

10. 20p

 p

**Change from 20p**

If I spend these amounts, how much change will I get from 20p?



1. 3p

 p

2. 18p

 p

3. 0p

 p

4. 12p

 p

5. 8p

 p

6. 11p

 p

7. 10p

 p

8. 14p

 p

9. 16p

 p

10. 9p

 p

Writing in pounds and pence

Above is one pound and twenty five pence. This can be written like this:

£1.25

The decimal point separates the pounds from the pence.

Write these amounts:

1.



£

2.



£

3.



£

4.



£

Writing in pounds and pence

Write these amounts as pounds:

1.



£

2.



£

3.



£

4.



£

5.



£

Writing in pence

Write these amounts as pence:

1.



p

2.



p

3.



p

4.



p

5.



p

Writing in pence

Write these amounts in pence:

1. £1.55 =

 p

2. £1.10 =

 p

3. £1.40 =

 p

4. £1.07 =

 p

5. £1.24 =

 p

6. £1.21 =

 p

7. £1.30 =

 p

8. £1.90 =

 p

9. £1.80 =

 p

10. £1.03 =

 p

11. £1.20 =

 p

12. £1.66 =

 p

Writing in pence**Write these amounts in pence:**

1. £1.45 = p

2. £1.00 = p

3. £1.70 = p

4. £1.08 = p

5. £1.34 = p

6. £1.01 = p

7. £1.10 = p

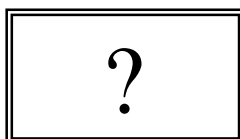
8. £1.33 = p

9. £1.70 = p

10. £1.02 = p

11. £1.50 = p

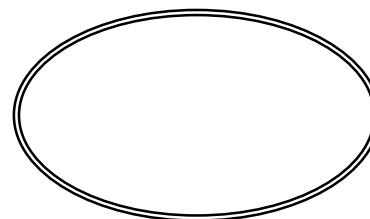
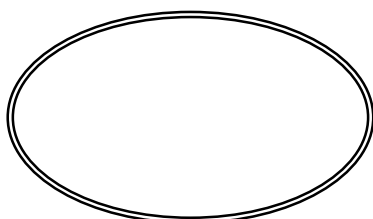
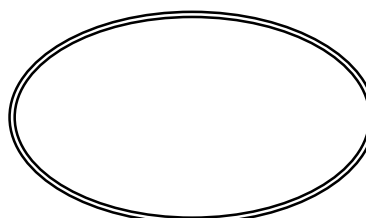
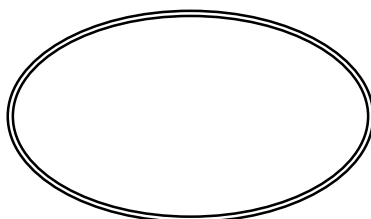
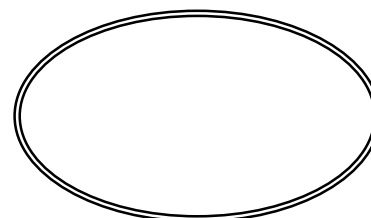
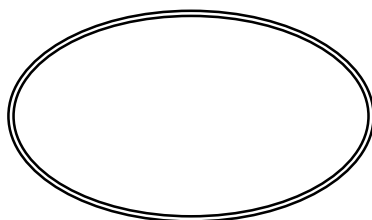
12. £1.44 = p

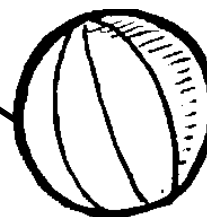
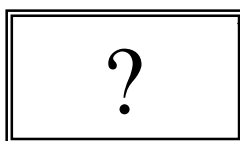
How much ?

You have these coins in your pocket:



You use **two** of the coins to buy the teddy.
What might the teddy cost?



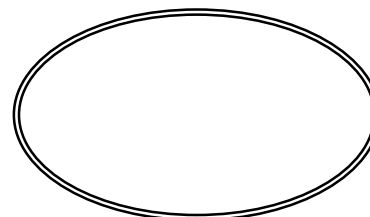
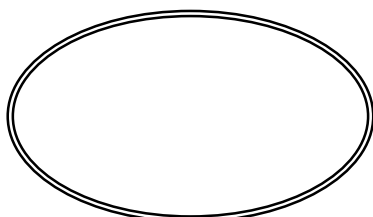
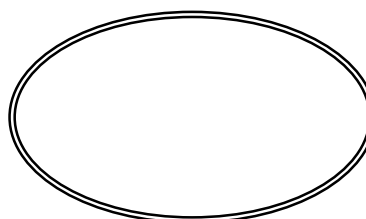
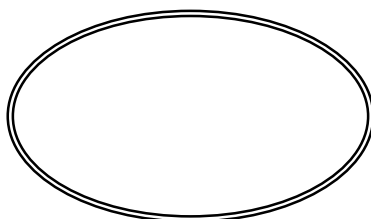
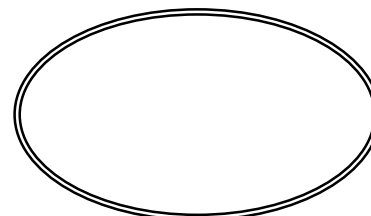
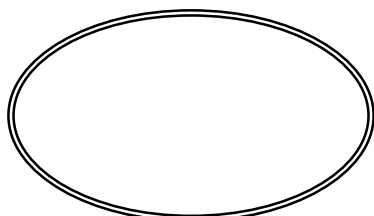
How much ?

You have these coins in your pocket:



You use **two** of the coins to buy the ball.

What might the ball cost?



Answers**Page 3**

1. 19p 2. 20p 3. 37p 4. 43p 5. 60p

Page 4

1. 38p 2. 56p 3. 62p 4. 52p 5. 62p

Page 5

a 46p b. 28p c. 49p d. 85p

Page 6

a 47p b. 28p c. 100p d. 47p

Page 7

Totals are: 2p 3p 4p 6p 7p 10p

Page 8

Totals are: 2p 3p 4p 11p 12p 20p

Page 9

Totals are: 8p 13p 16p 17p

Page 10

Totals are: 16p 26p 31p 35p

Page 11

Totals are: 7p 11p 12p 15p 16p 20p

Page 12

Totals are: 8p 13p 16p 17p 23p 26p 27p 31p 32p 35p

Page 13

1. 18p 2. 6p 3. 15p 4. 7p 5. 1p 6. 14p 7. 19p 8. 5p 9. 13p 10. 0p

Page 14

1. 17p 2. 2p 3. 20p 4. 8p 5. 12p 6. 9p 7. 10p 8. 6p 9. 4p 10. 11p

Page 15

1. £1.15 2. £1.55 3. £1.11 4. £1.52

Page 16

1. £1.12 2. £1.21 3. £1.55 4. £1.50 5. £1.20

Answers**Page 17**

1. 122p 2. 111p 3. 155p 4. 151p 5. 121p

Page 181. 155p 2. 110p 3. 140p 4. 107p 5. 124p 6. 121p
7. 130p 8. 190p 9. 180p 10. 103p 11. 120p 12. 166p**Page 19**1. 145p 2. 100p 3. 170p 4. 108p 5. 134p 6. 101p
7. 110p 8. 133p 9. 170p 10. 102p 11. 150p 12. 144p**Page 20**

The teddy could cost; 21p, 51p, £1.01, 70p, £1.20 £1.50

Page 21

The ball could cost; 15p, 55p, £1.05, 60p, £1.10, £1.50