

Thursday 25<sup>th</sup> June 2020

## Money

### Mental Maths

Choose the best option for you then solve it in your head.

**Option 1:** What is one half of 12? What is one quarter of 12?

**Option 2:** What is one quarter of 44? What is three quarters of 44?

**Option 3:** What is one quarter of 50? What is three quarters of 50?

Choose the best set of questions below for you to answer, or you could try all of them! Use the RUCSAC method to solve the problems:



**Read**

Read the question carefully.



**Underline**

Underline or write down the keywords and numbers.



**Choose**

Choose the correct operation (+ - x or ÷) and a mental or written method of calculation (you could use diagrams).



**Solve**

Solve it! Make sure you follow the steps carefully.



**Answer**

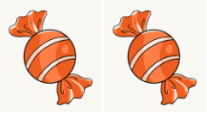
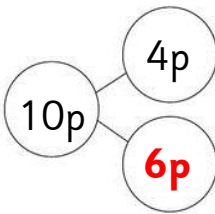
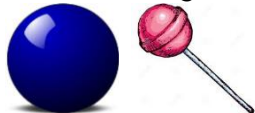
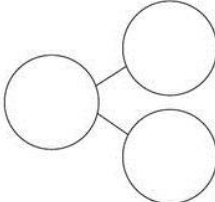
Check that you have answered the question properly. What did you need to find out in the first place?


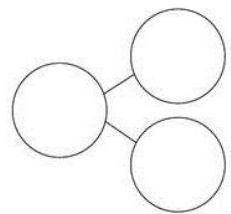

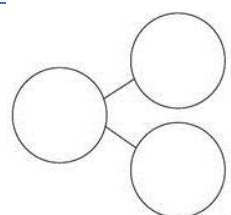

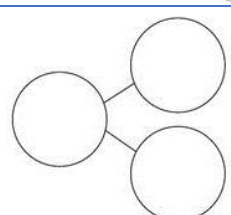


**Check**

Check your answer. Use the inverse calculation or another checking technique (was it close to your estimate?)

1. Complete the total costs and the part-whole models to show how much change the children should receive. I have given you an example.

Henry bought  2p    2p	Total cost = 4p	Henry gave the shopkeeper 10p	
Kim bought  20p    7p	Total cost = _____p	Kim gave the shopkeeper 30p	

<p>Ash bought</p>  <p>14p    14p    35p</p>	<p>Total cost = _____p</p>	<p>Ash gave the shopkeeper 80p</p>	
<p>Polly bought</p>  <p>23p    7p</p>	<p>Total cost = _____p</p>	<p>Polly gave the shopkeeper 50p</p>	
<p>Saul bought</p>  <p>32p    32p    32p</p>	<p>Total cost = _____p</p>	<p>Saul gave the shopkeeper 95p</p>	

2. Choose at least two items to buy from the shop:

Riverside Greengrocers			
Apples	19p	Carrots	7p
Bananas	14p	Aubergines	34p
Oranges	8p	Pack of tomatoes	89p
Kiwis	12p	Peppers	25p
Bunch of grapes	£2.25	Courgettes	28p
Punnet of strawberries	£3.17	Pack of asparagus	£3.20
Punnet of raspberries	£2.96	Cauliflower	£1.10
Punnet of cherries	£5.30	Packet of mushrooms	£1.33

- Calculate the total cost of the items.
- Which coins or notes would you use to pay for the items? Remember that if you can't pay exactly the exact price, you must give the shopkeeper a greater amount and you will receive change.



- How much change should you receive?

d. Repeat this at least four more times – choose different items each time.

### Challenge

3. Use the table below to record the fractions for each coin and note. Do you notice any patterns?

If it isn't possible to find the fraction without moving into decimals, write a dash in the box. I have completed 1p and 2p for you.

	$\frac{1}{2}$	$\frac{1}{3}$	$\frac{1}{4}$	$\frac{1}{5}$
<b>1p</b>	-	-	-	-
<b>2p</b>	1p	-	-	-
<b>5p</b>				
<b>10p</b>				
<b>20p</b>				
<b>50p</b>				
<b>£1.00</b>				
<b>£2.00</b>				
<b>£5.00</b>				
<b>£10.00</b>				
<b>£20.00</b>				
<b>£50.00</b>				