

Total Marks (out of 40)	
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6.1

Name	
Date	

Section 1:

Identify common factors, common multiples and prime numbers.

1

Write **two different** numbers in **each section** of the sorting diagram.

	multiple of 3	not a multiple of 3
multiple of 8		
not a multiple of 8		

2 marks

2 Adam is thinking of a number.

His number is a **factor of 32**.

His number is also a **factor of 48**.

His number is **greater than 2**.



There are three numbers Adam could be thinking of. Write them all.

or or

3 marks

3 Complete these calculations using **different prime** numbers.

$$\boxed{} + \boxed{} = \boxed{24}$$

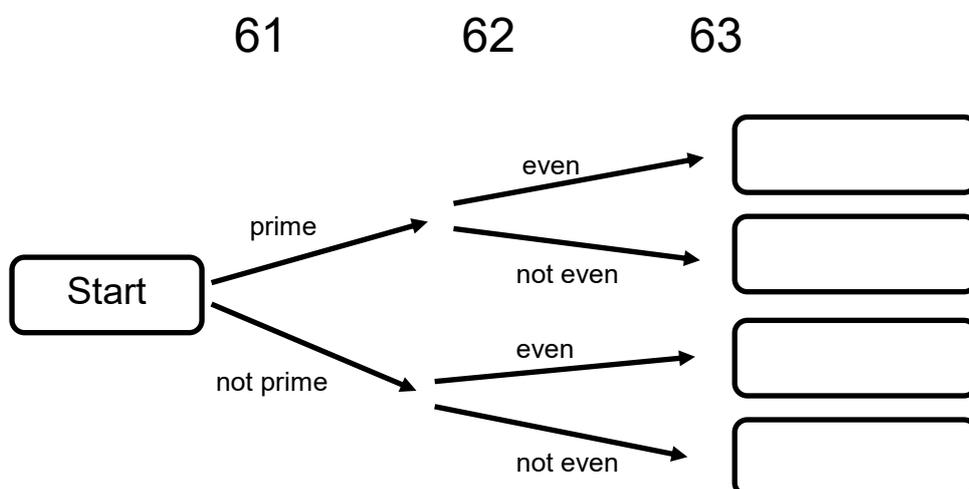
$$\boxed{} + \boxed{} = \boxed{24}$$

$$\boxed{} + \boxed{} = \boxed{24}$$

3 marks

4 Here is a diagram for sorting numbers.

Write these three numbers in the correct boxes.



2 marks

Section 2:

Use knowledge of the order of operations to carry out calculations involving the four operations.

5

Complete the calculations.

$$4 + 3 \times 5 = \boxed{}$$

$$16 - 10 \div 2 = \boxed{}$$

$$12 \times 3 + 4 = \boxed{}$$

3 marks

6

Insert pairs of brackets () to make these calculations correct.

$$3 \times 2 + 7 = 27$$

$$20 \div 4 + 1 = 4$$

2 marks

7

Look at these signs.



Write the correct sign in each box

$$4 + 1 \times 3 \quad \boxed{\phantom{<=>}} \quad 15$$

$$6 \times (3 + 1) \quad \boxed{\phantom{<=>}} \quad 6 \times 3 + 1$$

$$12 \div 3 + 1 \quad \boxed{\phantom{<=>}} \quad (12 \div 3) + 1$$

2 marks

Section 4:

Divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division (using the formal written method of short division where appropriate), and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context

10Calculate $5753 \div 11$

Show your method

A grid for showing the method of long division for 5753 divided by 11. The grid is 10 columns wide and 10 rows high. A box is provided for the final answer.

2 marks

11Calculate $6592 \div 32$

Show your method

A grid for showing the method of long division for 6592 divided by 32. The grid is 10 columns wide and 10 rows high. A box is provided for the final answer.

2 marks

16 Eve buys 300g of Cheddar and 250g of Swiss cheese.

She pays with a £10 note.



Cheddar Cheese

£5.20p per kg

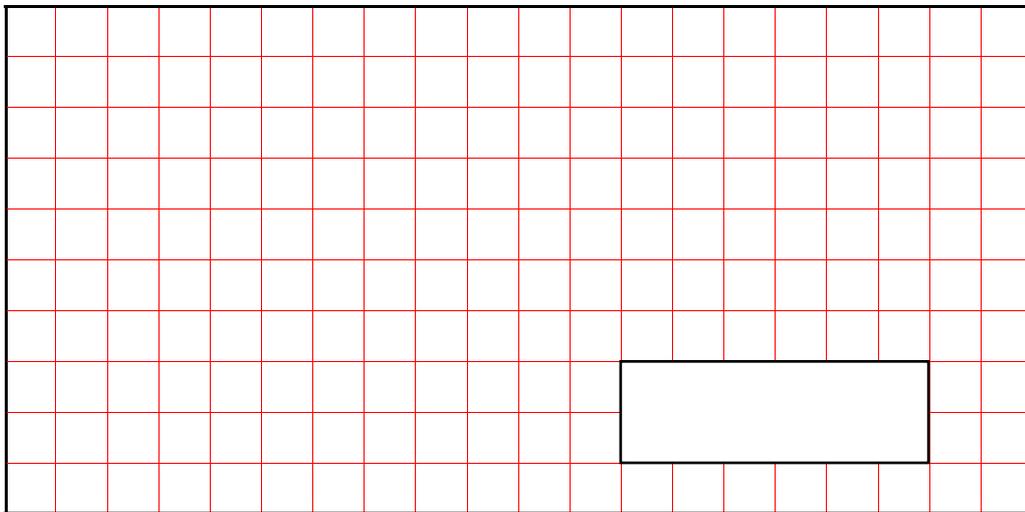


Swiss Cheese

64p per 100g

How much change does she get?

Show
your
method



3 marks

17 Adam, Marcus and Evie count the money they have in their pockets.

Adam has 10p more than Marcus.

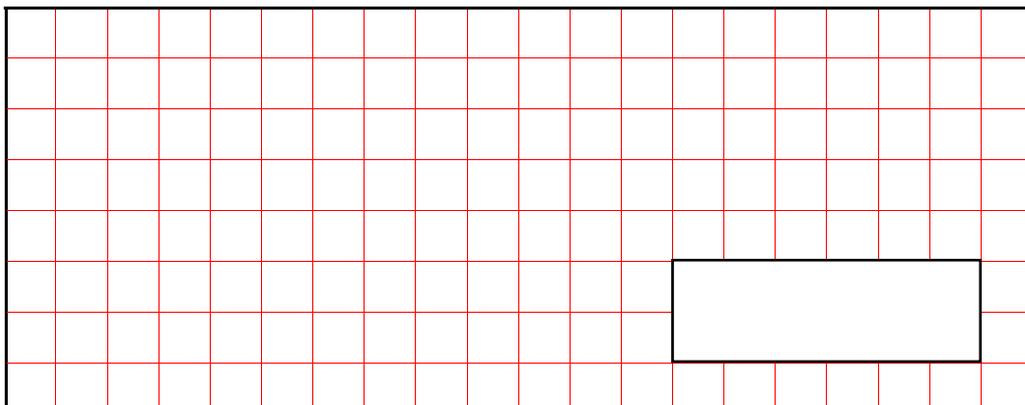
Marcus has 5p more than Evie.

Altogether they have 80p.



How much money does Adam have?

Show
your
method



2 marks