Number - addition, subtraction, multiplication and division assessment

6.2

Total Marks (out of 40)	

Name	
Date	

Section 1:

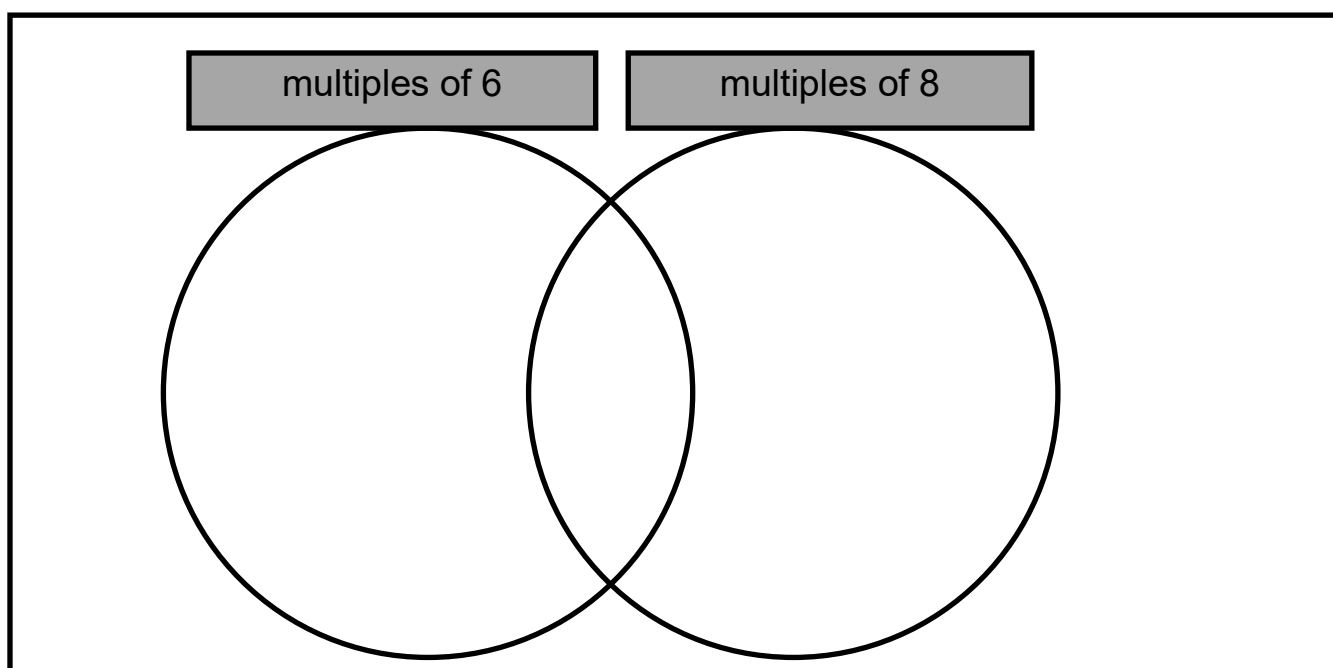**Identify common factors, common multiples and prime numbers.**

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1 Write these numbers in the correct position on the Venn diagram.

12   16   20   24

2 marks

2 These numbers are <u>both</u> **factors of 16** and **factors of 24**.

$$1 \quad\quad 2 \quad\quad 4 \quad\quad 8$$

Write all the numbers that are **both factors of 30** and **factors 50**

_____

3 marks

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

☐	+	☐	=	**18**

☐ + ☐ = **18**

☐ - ☐ = **16**

3 marks

4 Here is a diagram for sorting numbers.

Write these three numbers in the correct boxes.

$$21 \quad\quad 22 \quad\quad 23$$

Start → prime → even → ☐
Start → prime → not even → ☐
Start → not prime → even → ☐
Start → not prime → not even → ☐

2 marks

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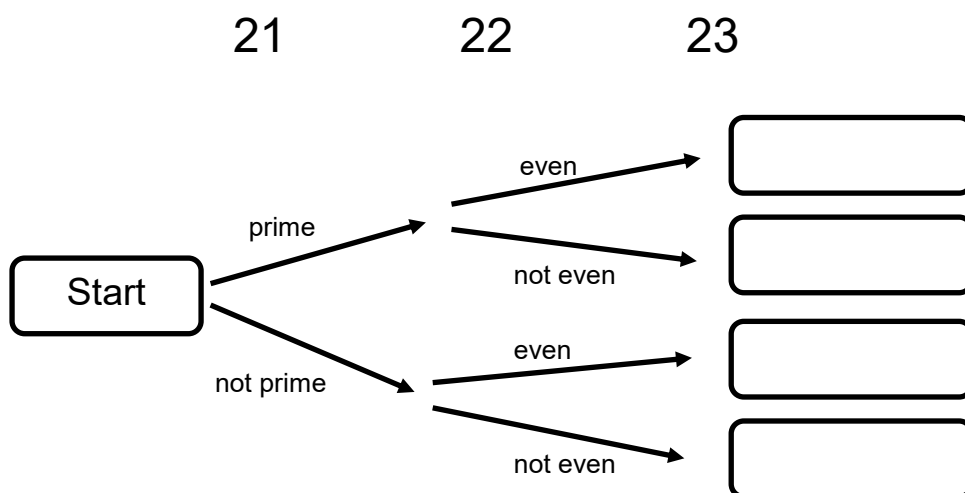
Section 2:

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

5 Complete the calculations.

$$7 + 2 \times 3 = \boxed{}$$

$$18 - 4 \div 2 = \boxed{}$$

$$8 \times 5 + 3 = \boxed{}$$

3 marks

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

$$5 \quad \times \quad 3 \quad + \quad 1 \quad = \quad 20$$

$$20 \quad \div \quad 4 \quad + \quad 6 \quad = \quad 2$$

2 marks

7 Look at these signs. $\boxed{<}$ $\boxed{=}$ $\boxed{>}$
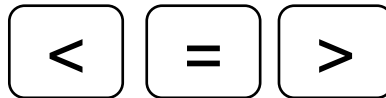
Write the correct sign in each box

$$7 + 3 \times 4 \quad \boxed{} \quad 40$$

$$8 \times (2 + 2) \quad \boxed{} \quad 8 \times 2 + 2$$

$$45 \div 5 + 4 \quad \boxed{} \quad (45 \div 5) + 4$$

2 marks

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Section 3:

Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication

8   Calculate 1073 x 45

Show your method

2 marks

9   It costs £12.75 for a child to visit Warwick castle.

There are 32 children from Class 6 visiting Warwick castle.

How much does it cost for all the children to visit Warwick castle?

Show your method

2 marks

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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

10 Calculate 4,884 ÷ 12
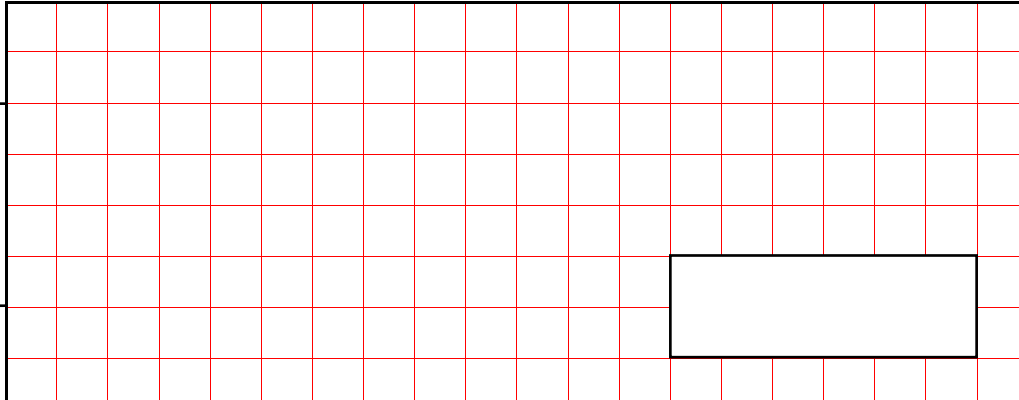
Show your method

2 marks

11 Calculate 7,344 ÷ 34

Show your method

2 marks

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12 A packet of balloons costs **62p**.

Marcus is having a party. He has **£5** to spend on balloons.

How many packets of balloons can he buy?

Show your method

balloons

2 marks

13 Felix reads 24 pages of his book every day.

His book has 373 pages.

How many days will it take him to finish his book?

Show your method

days

2 marks

Section 5:

Solve problems involving addition, subtraction, multiplication and division and solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.

14 To hire a taxi it costs:

£3 for every journey plus £1.60 per kilometre travelled

Zac travels 8 km.

He pays with a £20 note.

How much change does he get?

Show your method

3 marks

15 Sophia buys **two apples** and **one banana** for **£1.15**

Eve buys **two apples** and **two bananas** for **£1.60**

How much does **one apple** cost?

Show your method

3 marks

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16 Aston Villa played two games of football in one week.

On Saturday there were 27,408 people at Villa Park to watch Aston Villa play.

On Wednesday there were 1,705 fewer people in the crowd than on Saturday.

What was the **total number** of people that watched the **two games**?

Show your method

3 marks

17 Nick buys a sandwich and a drink. He spends £4.60.

The sandwich costs £2.80 more than the drink.

How much did the drink cost?

Show your method

2 marks

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