Reasoning: Multiplication 1

Q1.

Write the missing numbers to make this **multiplication** grid correct.

×	□	□
9	63	54
□	56	48

1 mark

Q2.

Here is a multiplication.

6 × 10 = 60

Write a **division** which uses these **same 3 numbers**.

1 mark

Q3.

Write in the missing number.

□ × 4 = 96

1 mark

Q4.

Ryan collects 2 comics each month for a whole year.

How many comics does he collect in a year?

1 mark

Q5.

Look at each number sentence.

Put a tick (✓) if it is correct.

Put a cross (✗) if it is **not** correct.

$8 \times 2 = 8 + 8$ ☐

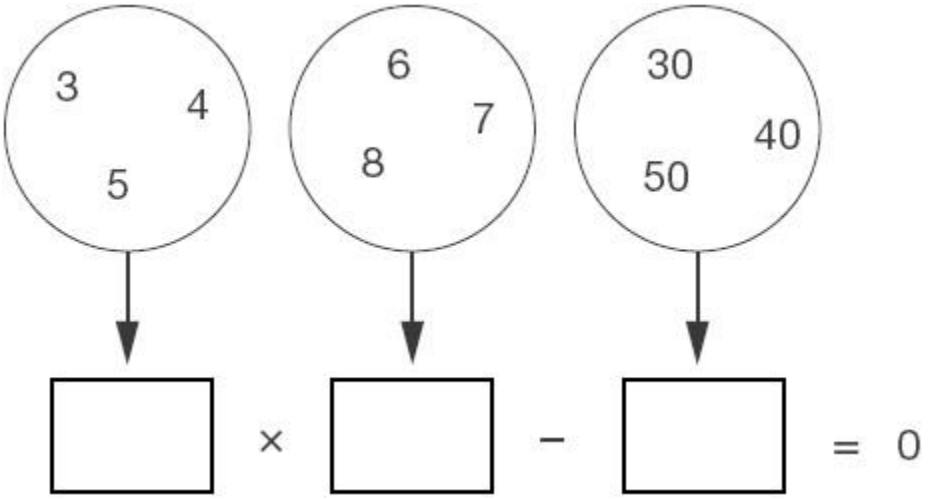
$3 \times 10 = 3 + 3 + 3$ ☐

$5 \times 4 = 5 + 5 + 5 + 5$ ☐

1 mark

Q6.

Write one number from each circle to make this calculation correct.



1 mark

Q7.

The number **20** goes in **two** of the squares of this multiplication grid.

Tick (✓) the two squares where 20 goes.

×	1	2	3	4	5
1					
2					
3					
4					
5					

1 mark

Q8.

In this grid, there are four multiplications.

Write the **three** missing numbers.

4	×	8	=	
×		×		
3	×		=	21
=		=		
		56		

1 mark

Q9.

Plastic cups are sold in packs of 8

Amir needs 27 cups.

How many packs must he buy?

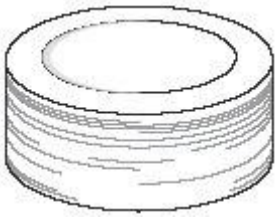
packs

1 mark

There are 30 paper plates in a pack.

Amir buys 2 packs.

He uses 37 plates.



How many plates are left?

plates

1 mark

Q10.

Write the correct sign =, > or < in each circle.

9 × 3 ◯ 8 × 4

9 – 3 ◯ 8 – 4

9 + 3 ◯ 8 + 4

9 ÷ 3 ◯ 8 ÷ 4

2 marks

Q11.

Joe has a box of 72 chocolates.

He gives 18 of the chocolates to his friends.

How many chocolates are left in the box?

1 mark

Holly has a box of mints.

She has 10 friends.

She gives them 5 mints each.

She has 13 mints left.

How many mints were in the box at the start?

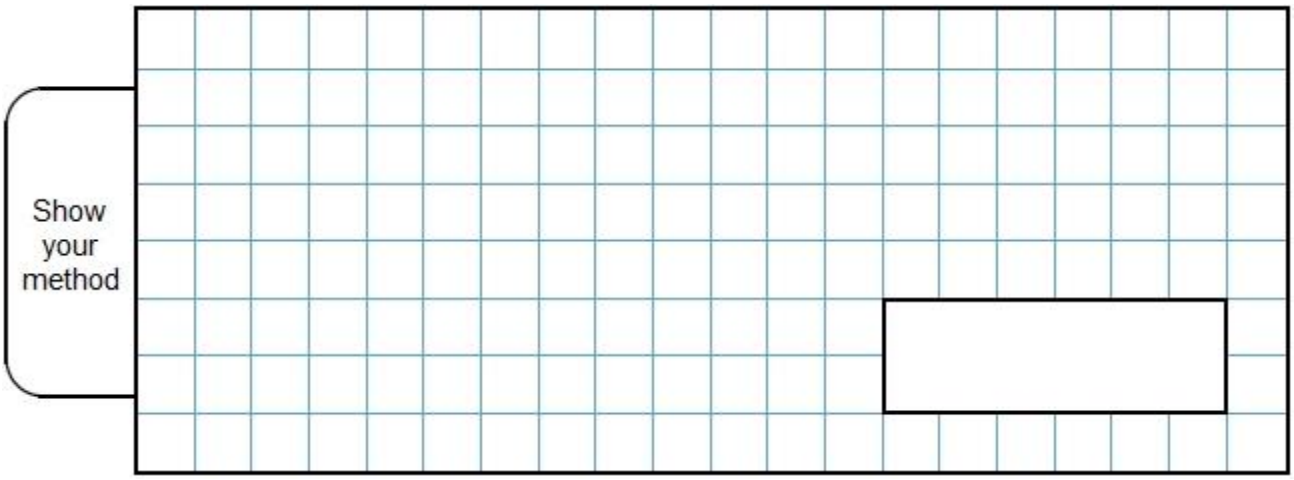
1 mark

Q12.

A pack of paper has 150 sheets.

4 children each take 7 sheets.

How many sheets of paper are left in the packet?



2 marks

Q13.

Write the missing numbers.

150 − ☐ = 87

1 mark

90 × ☐ = 450

1 mark

Q14.

Write the **three** missing numbers in this multiplication grid.

×	8	5	
4		20	28
5	40		35
3	24	15	21

2 marks

Mark schemes

Q1.

Three boxes completed correctly as shown:

×	7	6
9	63	54
8	56	48

[1]

Q2.

60 ÷ 10 = 6
OR
60 ÷ 6 = 10
OR
6 = 60 ÷ 10
OR
10 = 60 ÷ 6

Award the mark if more than one correct answer is given.

[1]

Q3.

24

[1]

Q4.

24

[1]

Q5.

Number sentences ticked and crossed as shown:

8 × 2 = 8 + 8 ✓

3 × 10 = 3 + 3 + 3 ✗

5 × 4 = 5 + 5 + 5 + 5 ✓

All three *number sentences must be correctly ticked and crossed for the award of the mark.*

Accept ticks and crosses placed elsewhere, provided it is

clear which number sentence they refer to.

Accept any other clear way of indicating the number sentences, such as 'Y' and 'N'.

[1]

Q6.

5	×	**6**	–	**30**

OR

5	×	**8**	–	**40**

[1]

Q7.

Grid completed as shown:

×	1	2	3	4	5
1					
2					
3					
4					✓
5				✓	

Accept alternative unambiguous indications, eg 20 written only in the correct squares.

[1]

Q8.

Award **ONE** mark for three correct answers, as shown:

4	×	8	=	**32**
×		×		
3	×	**7**	=	21
=		=		
12		56		

[1]

Q9.

(a) 4

1

(b) 23

1

[2]

Q10.

Award **TWO** marks for all four symbols correct, as shown:

If the answer is incorrect, award **ONE** mark for three symbols correct.

Up to 2

[2]

Q11.

(a) 54

1

(b) 63

1

[2]

Q12.

Award **TWO** marks for the correct answer of 122

If the answer is incorrect, award **ONE** mark for evidence of an appropriate method, e.g:

- $4 \times 7 = 28$
  $150 - 28$

*Answer need not be obtained for the award of **ONE** mark.*

Up to 2

[2]

Q13.

(a) 63

1

(b) 5

1

[2]

Q14.

Award **TWO** marks for all three numbers correct as shown:

×	8	5	7
4	**32**	20	28
5	40	**25**	35
3	24	15	21

If the answer is incorrect, award **ONE** mark for two numbers correct.

Up to 2

[2]