The 4 Operations

Solve these SATs question involving the four operations (Answers at the back).

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27 minutes

27 marks

Q1. Write the missing number

$\square + 71 = 100$

$84 - \square = 29$

2 marks

Q2. Write the missing number in the sequence

$\square$ 300 350 400 $\square$ 500

1 mark

Q3. Write the missing number in the sequence

$\square$ 273 001 283 001 293 001 $\square$

2 marks

Q4. Seb saved up for a new skateboard that cost £40

The table shows how much money he saved each week.

Week number	1	2	3	4	5	6	7	8	9	10
Amount saved	£5	£4	£2	£4	£3	£4	£6	£4	£3	£5

In which week did Seb reach **half** the amount he needed for the skateboard?

Week _____

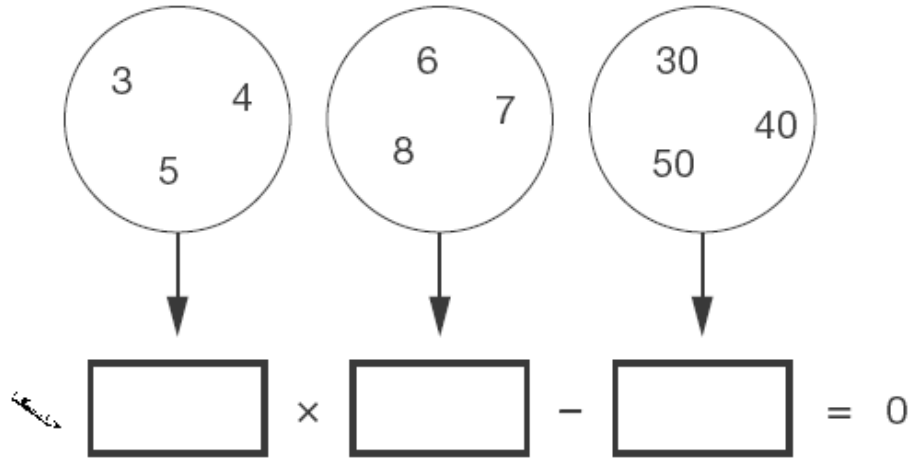
1 mark

If Seb had saved an extra £1 each week, in which week would he have reached his target of £40?

Week

1 mark

Q5. Write one number from each circle to make this calculation correct.



1 mark

Q6. 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

Q7. 200 children went on holiday.

10% of the children went to Wales.

25% of the children went to Scotland.

How many **more** children went to Scotland than went to Wales?

Show your working

children

2 marks

Q8. Write numbers in the boxes to make this calculation correct.

50 − ☐ = ☐ + 10

1 mark

Q9. Write the **three** missing numbers in this multiplication grid.

×	8	5	
4		20	28
5	40		35
3	24	15	21

2 marks

Q10. 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

Q11. $23 \times 36 = 23 \times 9 \times \square$

1 mark

Q12. Complete these calculations.

15 × 100 = ☐

☐ × 10 = 1500

☐ ÷ 100 = 150

150 ÷ 10 = ☐

2 marks

Q13. These are some prices in a flower shop.

tulips

£1.20 for a bunch

roses

40p each

daffodils

55p for a bunch

How many roses can you buy for exactly £2?

☐

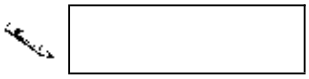
1 mark

Amy buys **one** bunch of tulips and **three** bunches of daffodils.

How much does she pay **altogether**?

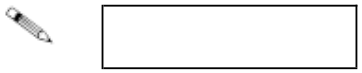
2 marks

Q14. Calculate **48 ÷ 3**



1 mark

Q15. Calculate **144 ÷ 6**



1 mark

Q16. The table below shows five journeys a taxi driver made one day.

journey number	start time	number of passengers	distance	cost
1	9:15 am	2	8 km	£7.50
2	9:40 am	1	12 km	£9.90
3	10:30 am	3	7 km	£7.60
4	10:50 am	1	21 km	£15.50
5	12:10 pm	4	15 km	£12.00

On journey number 5, the passengers shared the cost equally.

How much did **each** passenger pay?

£

1 mark

How many **passengers** made journeys of more than 10km?

passengers

1 mark

The 12km journey took 40 minutes.

What time did the taxi finish its journey?

am

1 mark

M1. 29

1

55

1

[2]

M2.

250	300	350	400	**450**	500

Additional guidance
Both required for one mark

[1]

M3.

263001

1

303001

1

[2]

M4. 6

1

8

1
U1

[2]

M5.

5	×	**6**	–	**30**	

OR

5	×	**8**	–	**40**	

[1]

M6. (a) 54

1

(b) 63

1

[2]

M7. Award **TWO** marks for a correct answer of 30

If the answer is incorrect, award **ONE** mark for evidence of appropriate working, eg:

- 10% of 200 = 20

  25% of 200 = 50

  50 – 20 = wrong answer

OR

- 25% – 10% = 15%

  15% of 200 = wrong answer

*Working must be carried through to reach an answer for the award of **ONE** mark.*

Up to 2m

[2]

M8. Any two numbers which total 40, eg:

- 10 and 30
- 20 and 20
- 0 and 40
- 1 and 39

Accept negative numbers and decimals.

[1]

M9. 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]

M10. 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]

M11. 4

[1]

M12. Award **TWO** marks for all four values correct as shown:

15 × 100 = [1500]

[150] × 10 = 1500

[15000] ÷ 100 = 150

150 ÷ 10 = [15]

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

Up to 2

[2]

M13. (a) 5

1

(b) Award **TWO** marks for the correct answer of £2.85

If the answer is incorrect, award **ONE** mark for evidence of appropriate method, eg

0.55 × 3 = 1.65

1.20 + 1.65

*Accept for **ONE** mark £285 **OR** £285p as evidence of appropriate method.*

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

Up to 2

[3]

M14. 16

[1]

M15. 24

[1]

M16. (a) £3.00

1

(b) 6

1

(c) 10:20 am

The answer is a specific time.

1

[3]