1. Emily chooses two numbers.

She adds the two numbers together and divides the result by 2

Her answer is 44

One of Emily's numbers is 12

What is Emily's other number?

Show your **method**. You may get a mark.

2 marks

2. Write in the missing numbers.

$\boxed{}$ + 75 = 90

1 mark

$$4 \times \boxed{} = 200$$

3. Write in the missing numbers.

$$35 \times \boxed{} = 140$$

$$633 - \boxed{} = 34$$

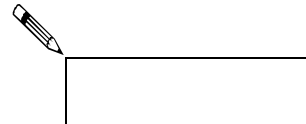**4.** Josh thinks of a number.

He adds 4

He multiplies his result by 3

Then he takes away 9

His final answer is 90

What number did Josh start with?

1 mark

5. Write in the missing numbers.

$$\boxed{} + 85 = 200$$

1 mark

$$4 \times \boxed{} = 120$$

1 mark

$$120 - 51 = \boxed{}$$

1 mark

6. Write in the missing numbers in this multiplication grid.

×	5	☐	☐
4	20	36	32
☐	35	63	56
☐	30	54	48

2 marks

7. Write in the missing numbers.

3 × 4 × ☐ = 96

1 mark

☐ + 62 − 46 = 96

1 mark

8. Write in the missing numbers.

☐ ÷ 21.7 = 37.5

1 mark

100 − (22.75 + 19.08) = ☐

1 mark

9. Write in the missing numbers.

37 × [ ] = 111

225 − [ ] = 150

[ ] ÷ 4 = 21

10. Write what the **three** missing digits could be in this calculation.

[ ][ ] × [ ] = | 3 | 7 | 8 |

11. In this sequence each number is double the previous number.

Write in the missing numbers.

[ ]   [ ]   3   6   12   24   48   [ ]

12. Write in the missing numbers.

$5 \times 70 = \boxed{}$

1 mark

$4 \times \boxed{} = 200$

1 mark

13. Write in the missing numbers.

$22 \times \boxed{} = 660$

1 mark

$\boxed{} - 75 = 109$

1 mark

14. Jemma thinks of a number.

She says,

> *'Add 3 to my number and then*
> *multiply the result by 5*
> *The answer is 35'*

What is Jemma's number?

$\boxed{}$

1 mark

Riaz thinks of a number.

He says,

> *'Halve my number and then add 17
> The answer is 23'*

What is Riaz's number?

1 mark

15. Write in the missing number.

$$32.45 \times \boxed{} = 253.11$$

1 mark

16. Write in what the missing numbers could be.

$$170 + \boxed{} = 220 - \boxed{}$$

1 mark

17. Write in the missing numbers.

✏️ **45 +** ⬚ **= 110**

(4 × 5) − ⬚ **= 12**

60 × 3 = ⬚
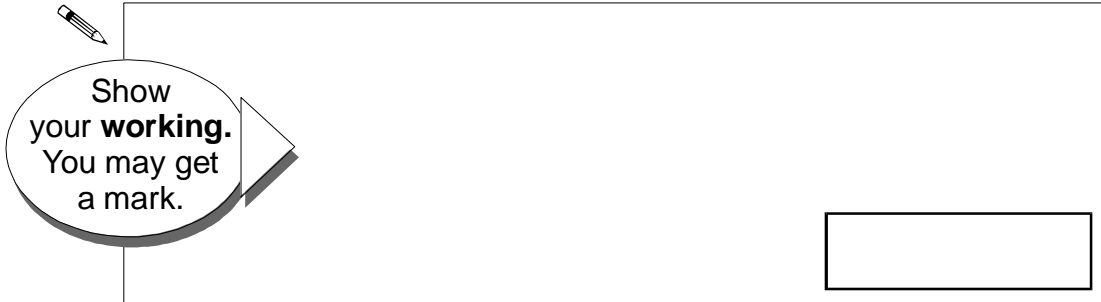
18. Here is a sequence of patterns made from squares and circles.
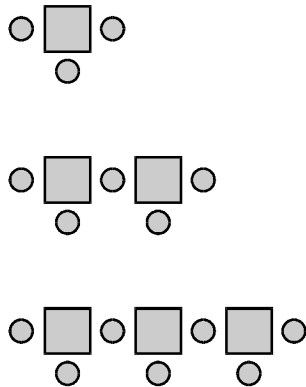
number of squares	number of circles
1	3
2	5
3	7

The sequence continues in the same way.

Calculate how many **squares** there will be in the pattern which has **25 circles**.

Show your **working.** You may get a mark.

2 marks

19. Write in the **missing** number.

$$8 \times \boxed{} = 400$$

1 mark

20. Write in what the missing numbers could be.

$$\left(\boxed{} \div \boxed{}\right) + 90 = 100$$

1 mark

21. Write in the missing number.

$$404.09 \div \boxed{} = 8.5$$

22. Write in the missing number.

$$60 + 99 + \boxed{} = 340$$

23. n stands for a number.

Complete this table of values.

n	$5n - 2$
20	$\boxed{}$
$\boxed{}$	38

24. Rob has some number cards.

He holds up a card.

He says,

> *'If I multiply the number on this card by 5, the answer is 35'.*

What is the number on the card?

1 mark

He holds up a different card.

He says,

> *'If I divide the number on this card by 6, the answer is 4'.*

What is the number on the card?

1 mark

25. Write in the missing number.

✎ **950.4 ÷** ☐ **= 49.5**

1 mark

26. Write in the **missing** number.

✎ **568.1 ÷** ☐ **= 24.7**

1 mark

27. Sima thinks of a number.

She **divides** it by **12**. Her answer is **26**.

What is the number Sima thinks of?

✎ ☐

1 mark

28. Write the **missing** number.

✎ **10233 ÷** ☐ **= 379**

1 mark

29. Write the **three missing** digits.

✎ ☐☐ X ☐ = 371