

Name \_\_\_\_\_



1 Circle all the square numbers.

1      2      10      49      144

2 marks

2 Tick the cards that are common factors of 12 and 18

6

9

36

2

4

1 mark

3 Use the fact  $12 \div 4 = 3$  to complete the missing numbers.

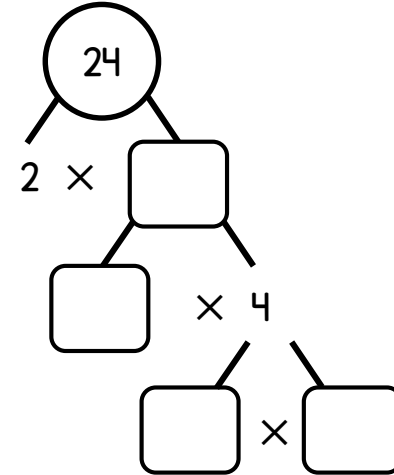
$$120 \div 4 = \square$$

$$124 \div 4 = \square$$

$$\square \div 4 = 0.3$$

3 marks

4 Complete the prime factor tree.




2 marks

5 Which two calculations give the same answer?

A  $6 + 4 \times 7$

B  $(6 + 4) \times 7$

C  $6 + (4 \times 7)$

\_\_\_\_\_ and \_\_\_\_\_

1 mark

6 Tick the card that has the greatest value.

$10^2$

$3^3$

$5^3$

1 mark

- 7 Dora thinks of a positive whole number. She says,
- It is an odd number less than 30
  - It is one more than a multiple of 11
- Is her number prime?  
Explain your reasoning.

1 mark

- 8 Complete the table by putting the labels in the correct place.

- A** Square number      **C** Multiple of 6  
**B** Not a square number      **D** Not a multiple of 6

	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	36 144	6 24 60 18
<b>D</b>	9 16 100 25 49	7 15 31

2 marks

- 9 Work out  $89^2$

\_\_\_\_\_

2 marks

- 10 Harry uses these digit cards.



- He makes a 3-digit number and a 1-digit number.
- He multiplies them together.
- His answer is odd.

What could the multiplication be?

$$\square \square \square \times \square$$

1 mark

- 11 Alex has 3 boxes of eggs.

There are 6 eggs in each box.

He takes one egg out of each box.

Circle the calculation that shows the total number of eggs in the boxes now.

$$(3 \times 6) - 1 \quad 3 \times (6 - 1) \quad 3 \times 6 - 1$$

2 marks

- 12 Work out the missing numbers.

$$2 \times 3 + 4 \times \square = 70$$

$$2 \times (3 + 4) \times \square = 70$$

2 marks

Circle how confident you feel with four operations.

1      2      3      4      5  
 Not      Very  
 confident      confident