

### Answers

1 Circle all the square numbers.



2 marks

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



1 mark

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

$$120 \div 4 = \boxed{30}$$

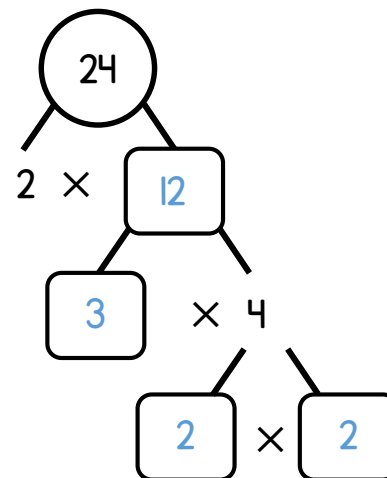
$$124 \div 4 = \boxed{31}$$

$$\boxed{1.2} \div 4 = 0.3$$



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  $6 + (4 \times 7)$

    A     and     C    



1 mark

6 Tick the card that has the greatest value.



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? **YES**

Explain your reasoning.

There are two numbers less than 30 that are one more than a multiple of 11

These are 12 and 23

12 is even and 23 is odd so Dora is thinking of 23

23 has 2 factors, 1 and 23, so it is a prime number.

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

	A	B
C	36 144	6 24 60 18
D	9 16 100 25 49	7 15 31

Award 1 mark for 1 correct answer

9 Work out  $89^2$

Award 1 mark for 1 step of correct calculation. 7,921

1 mark

2 marks

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?



Possible answers:

$485 \times 7$

$487 \times 5$

$845 \times 7$

$847 \times 5$

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.

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

2 marks

12 Work out the missing numbers.

$$2 \times 3 + 4 \times \boxed{16} = 70$$

$$2 \times (3 + 4) \times \boxed{5} = 70$$

2 marks

Circle how confident you feel with four operations.

1                      2                      3                      4                      5

Not  
confident

Very  
confident

2 marks