

Answers

- 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.

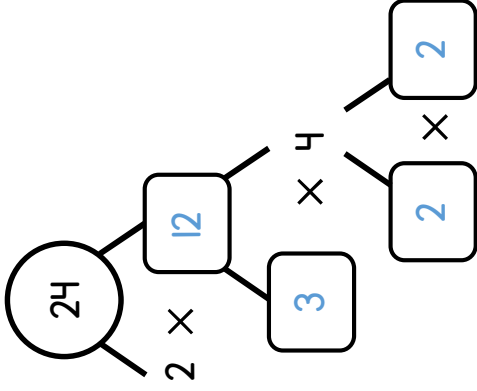
$$120 \div 4 = 30$$

$$124 \div 4 = 31$$

$$12 \div 4 = 0.3$$

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 $6 + (4 \times 7)$

1 mark

- 6 Tick the card that has the greatest value.

10^2
 3^3
 5^3

1 mark

A _____ and C _____

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

	<input type="checkbox"/> A		<input type="checkbox"/> B
<input type="checkbox"/> C	36 144	6 24 60 18	
<input type="checkbox"/> 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

10 Harry uses these digit cards.

4

5

7

8

Possible answers:

- 485 × 7
- 487 × 5
- 845 × 7
- 847 × 5

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

What could the multiplication be?

×

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