Finding Factors

I can find factors of numbers.

To find the **factors** of a number, you need to find all the pairs of numbers that multiply together to make a **product**.

2 × 5 = 10

2 and 5 are **factors**. 10 is the **product**.

Fill in the missing factors for these products:

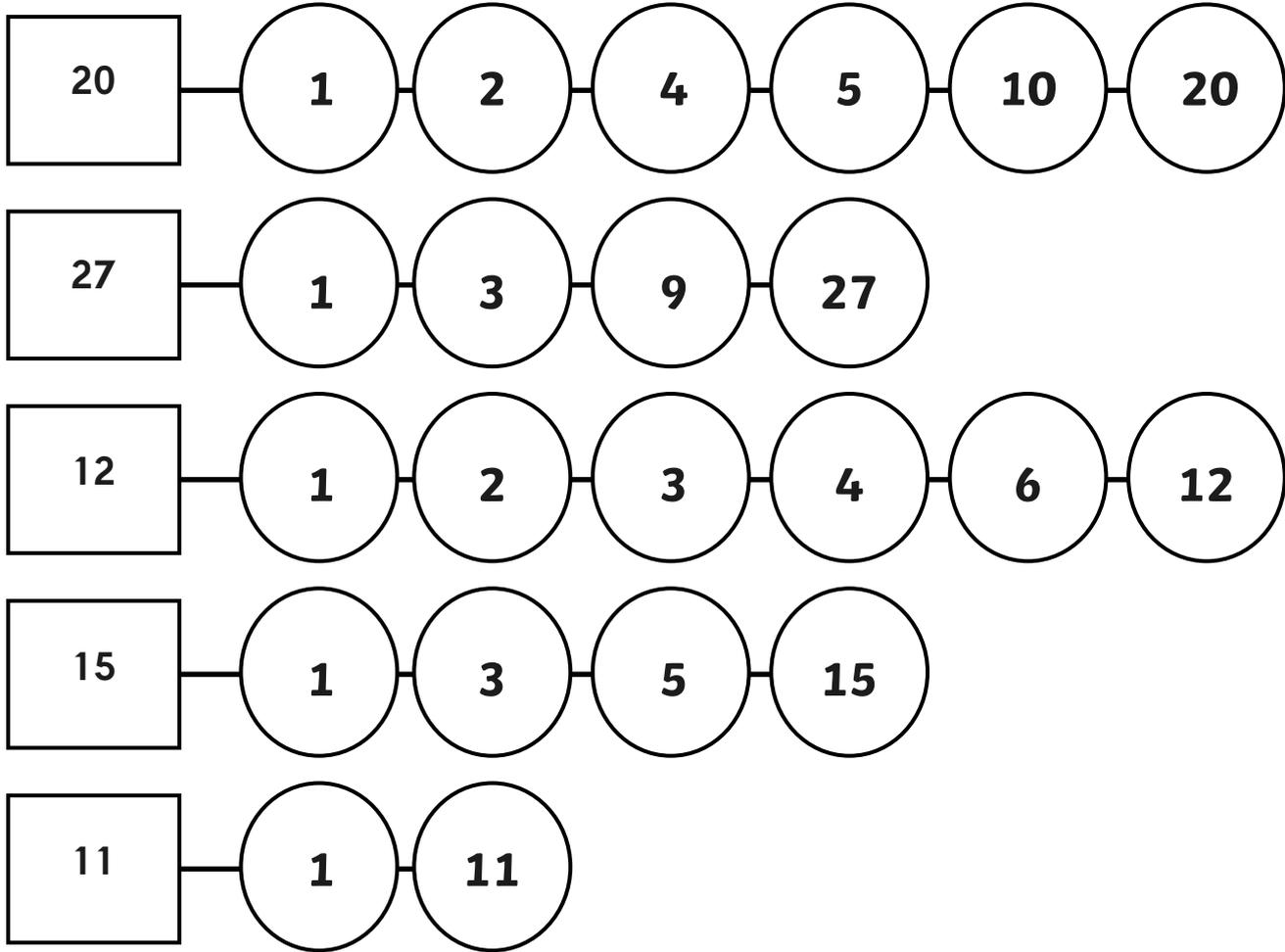20 ◯ ◯ ◯ ◯ ◯ ◯

27 ◯ ◯ ◯ ◯

12 ◯ ◯ ◯ ◯ ◯ ◯

15 ◯ ◯ ◯ ◯

11 ◯ ◯

Now list the factors of these numbers:

1. 16

2. 21

3. 23

Finding Factors **Answers**

| 20 | 1 | 2 | 4 | 5 | 10 | 20 |

| 27 | 1 | 3 | 9 | 27 |

| 12 | 1 | 2 | 3 | 4 | 6 | 12 |

| 15 | 1 | 3 | 5 | 15 |

| 11 | 1 | 11 |

Now list the factors of these numbers:

1. 16 **1, 2, 4, 8, 16**

2. 21 **1, 3, 7, 21**

3. 23 **1, 23**

Finding Factors

I can find factors of numbers.

To find the **factors** of a number, you need to find all the pairs of numbers that multiply together to make a **product**.

2 × 5 = 10

2 and 5 are **factors**. 10 is the **product**.

List the factors of these numbers:

1. 16

2. 21

3. 24

4. 48

5. 64

List the factors of these numbers:

6. 7

7. 11

8. 23

9. 13

10. 5

What do you notice about these numbers?

_____

These numbers are called prime numbers.

Can you find three more prime numbers? _____, _____, _____

Finding Factors **Answers**

List the factors of these numbers:

1. 16   **1, 2, 4, 8, 16**

2. 21   **1, 3, 7, 21**

3. 24   **1, 2, 3, 4, 6, 8, 12, 24**

4. 48   **1, 2, 3, 4, 6, 8, 12, 16, 24, 48**

5. 64   **1, 2, 4, 8, 16, 32, 64**

List the factors of these numbers:

6. 7   **1, 7**

7. 11   **1, 11**

8. 23   **1, 23**

9. 13   **1, 13**

10. 5   **1, 5**

What do you notice about these numbers?

They only have 1 and the number itself as factors

These numbers are called prime numbers.

Can you find three more prime numbers? **Multiple answers possible**

Finding Factors

I can find factors of numbers.

To find the **factors** of a number, you need to find all the pairs of numbers that multiply together to make a **product**.

2 × 5 = 10

2 and 5 are **factors**. 10 is the **product**.

List the factors of these numbers:

1. 64

2. 48

3. 24

4. 36

5. 72

List the factors of these numbers:

6. 11

7. 17

8. 23

9. 29

10. 61

What do you notice about these numbers?

_____

These numbers are called prime numbers.

Can you find three more prime numbers? _____, _____, _____

Finding Factors **Answers**

List the factors of these numbers:

1. 64   **1, 2, 4, 8, 16, 32, 64**

2. 48   **1, 2, 3, 4, 6, 8, 12, 16, 24, 48**

3. 24   **1, 2, 3, 4, 6, 8, 12, 24**

4. 36   **1, 2, 3, 4, 6, 9, 12, 18, 36**

5. 72   **1, 2, 3, 4, 6, 8, 9, 12, 18, 24, 36, 72**

List the factors of these numbers:

6. 11   **1, 11**

7. 17   **1, 17**

8. 23   **1, 23**

9. 29   **1, 29**

10. 61   **1, 61**

What do you notice about these numbers?

They can be divided evenly only by 1 or itself.

These numbers are called prime numbers.

Can you find three more prime numbers? **Multiple answers possible**