

# Maths Mastery

Multiplication and Division

The Twinkl logo is a purple speech bubble with the word "twinkl" in white lowercase letters, positioned over a yellow star in the bottom center of the page.

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# Will I...?

“If I start at zero and count on in tens, will I say the number 60?”  
Explain your reasoning.

**Yes because 60 is a multiple of 10, e.g. 0, 10, 20, 30, 40, 50, 60.**

“If I start at zero and count on in fives, will I say the number 37?”  
Explain your reasoning.

**No because 37 is not a multiple of 5, e.g. 0, 5, 10, 15, 20, 25, 30, 35, 40.**

“If I start at 20 and count back in twos, will I say the number 13?”  
Explain your reasoning.

**No because 13 is not a multiple of two and twenty is so all of the numbers will be in the two times table, e.g. 20, 18, 16, 14, 12.**

Hide  
Answers

# I Spy...

I spy with my little eye, 6 bicycles. How many wheels can I see?

$$6 \times 2 = 12$$

I spy with my little eye, 5 cats. How many legs will I see?

$$5 \times 4 = 20$$

I spy with my little eye, 10 people. How many legs can I see?

$$10 \times 2 = 20$$



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Answers

# Cookie Problem!

I have 10 cookies. I want to sort them onto plates. I am not sure if I need just 1 plate, 2 plates or 5 plates. How many different ways can I sort them?

**1 plate with 10 cookies on it.**

**2 plates with 5 cookies on them (or 1 and 9, 2 and 8, 3 and 7, 4 and 6).**

**5 plates with 2 cookies on them.**

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Answers

# Missing Numbers!



Look at this sequence:



Can you fill in the missing numbers?  
What pattern do you notice?

Look at this sequence:



Can you fill in the missing numbers?  
What pattern do you notice?



Hide  
Answers

# Hunting for Patterns

Are there any numbers in the two times table that are also in the five and ten times tables?

How do you know?

Explain your reasoning.

**Yes, 10, 20, 30, 40, 50, 60, etc. are all in the 2, 5 and 10 times tables. To be a multiple of 10, the number must end in 0. To be a multiple of 5, the number must end in 5 or 0. To be a multiple of 2, the number must end in 0, 2, 4, 6 or 8.**



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Answers

Ways of representing 12:

# Arrays

1 row of 12

2 rows of 6

3 rows of 4

4 rows of 3

6 rows of 2

12 rows of 1

Ways of representing 20:

1 row of 20

2 rows of 10

4 rows of 5

5 rows of 4

10 rows of 2

20 rows of 1

Are there any other ways you could represent the number 12?

What about the number 20?

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Answers

# Number Facts

$$3 \times 4 = 12$$

$$12 \div 3 = 4$$

$$4 \times 3 = 12$$

$$12 \div 4 = 3$$

Using the following numbers, can you find the four multiplication and division facts about them?

$$20 \times 4 = 80$$

$$10 \times 7 = 70$$

$$20 \div 4 = 5$$

$$20 \div 5 = 4$$

$$10 \times 7 = 70$$

$$7 \times 10 = 70$$

$$70 \div 10 = 7$$

$$70 \div 7 = 10$$

Hide  
Answers



# Puppy Problem!

5 dogs all had two puppies each. How many dogs were there altogether? Can you show your working out using a picture?

**Remember, we need to include the mummy dogs as well as the puppies.**

$$\text{First dog} + 2 \text{ puppies} = 3$$

$$\text{Second dog} + 2 \text{ puppies} = 3$$

$$\text{Third dog} + 2 \text{ puppies} = 3$$

$$\text{Fourth dog} + 2 \text{ puppies} = 3$$

$$\text{Fifth dog} + 2 \text{ puppies} = 3$$

$$5 \times 3 = 15 \text{ dogs}$$



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Answers



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