

11.1.2021

Quick Maths



A

○ $20 - 13 =$

○ $12 \times 5 =$

○ $3\text{mm} + \text{mm} = 2\text{cm}$

○ Find all factor pairs of 12

11m
Area =

B

○ $76345 + 41927 =$

○ $3/4$ of $\text{---} = 27$

○ $810 \div 9 =$

○ $5 \times 3 \times 6 =$

27m
Area =

Challenge

Always, sometimes or never?

Larger numbers always have more factor pairs.



Prove your answer.

Flashback 4

Year 4 | Week 1 | Day 5



1) Complete the factors of 15

1, 3, --- , ---

2) What is 7×3 ?

3) Work out fifty-four divided by six

4) 9 kilometres = --- metres



Recap - Factor Pairs

Factors are numbers that multiply by itself or another number (factor), to make another number (product).

Each number has at least one factor pair, 1 and itself!

Some numbers have more than one factor pair - working systematically can help us find all possible factor pairs. This means we start from 1 and itself, and work upwards (2, then 3, then 4 and so on).

FACTOR PAIRS 2



Learning Objective:

Today I am learning to

- work systematically to find all possible factor pairs.
- develop my times table knowledge.

Key Vocabulary

- factors	- multiply
- pairs	- systematically
- prime	- division
- multiples	- divisible

Success Criteria

I will be successful if I can

- explain what factors are.
- explain what a prime number is.
- work systematically to find all possible factor pairs.

True or False?

Factor pairs

3 and 4 are factor pairs of 7

White Rose Maths

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Working systematically

Working systematically simply means to work in a logical order. This is really helpful when trying to find factor pairs, because we don't want to miss any.

So, the most logical place to start would be 1 and the number itself. Then, we check if 2 is a factor pair, then 3, then 4 and so on.

We do this until the factors meet in the middle and you have no possible factors left.

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Working systematically

Find the factors for 28.

--	--	--	--	--	--

Find the factors for 42.

--	--	--	--	--	--	--	--

Can you find the all of the factors for these products?

17

27

13

48

What do you notice?

Numbers with only two factors (one and itself) are called *prime numbers*.

Below, list all of the prime numbers from 1-25, using the stem sentence to help you.

_____ are prime
numbers because _____.

Activity

A

1. 8
2. 9
3. 12
4. 13
5. 19
6. 24
7. 28
8. 35

B

1. 15
2. 26
3. 32
4. 39
5. 41
6. 49
7. 56
8. 62

C

1. 48
2. 53
3. 57
4. 66
5. 78
6. 105
7. 123
8. 149

Challenge

Class 4B is having a sports day.

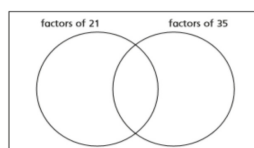
There are 36 children in the class.

The children need to be in equal groups.

What group sizes are possible?

a) Write the numbers on the diagram.

1 3 5 7 21 35



b) What are the common factors of 21 and 35?
