

Year 5 – Autumn Block 4 – Multiplication and Division – Factors

About This Resource:

This PowerPoint has been designed to support your teaching of this small step. It includes a starter activity and an example of each question from the Varied Fluency and Reasoning and Problem Solving resources also provided in this pack. You can choose to work through all examples provided or a selection of them depending on the needs of your class.

National Curriculum Objectives:

Mathematics Year 5: (5C5a) [Identify multiples and factors, including finding all factor pairs of a number, and common factors of to numbers](#)

[More resources](#) which follow the same small steps as White Rose.

Did you like this resource? Don't forget to [review](#) it on our website.

Step 2: Factors

Introduction

Complete the following calculations:

$$4 \times 8 = ?$$

$$3 \times ? = 24$$

$$? \times 7 = 49$$

$$12 \times 4 = ?$$

$$9 \times ? = 54$$

Introduction

Complete the following calculations:

$$4 \times 8 = 32$$

$$3 \times 8 = 24$$

$$7 \times 7 = 49$$

$$12 \times 4 = 48$$

$$9 \times 6 = 54$$

Varied Fluency 1

Tick all the factors for 28.

☐

9

☐

7

☐

6

☐

1

☐

3

☐

4

Varied Fluency 1

Tick all the factors for 28.

☐

9

☒

7

☐

6

☒

1

☐

3

☒

4

Varied Fluency 2

Complete the pairs of factors for the number 12.

$$12 \times \square$$

$$\square \times 3$$

$$2 \times \square$$

Varied Fluency 2

Complete the pairs of factors for the number 12.

$$12 \times \boxed{1}$$

$$\boxed{4} \times 3$$

$$2 \times \boxed{6}$$

Varied Fluency 3

Circle the numbers that are NOT factors of 20.

2

5

4

7

3

9

Varied Fluency 3

Circle the numbers that are NOT factors of 20.

2

5

4

7

3

9

Varied Fluency 4

Find all 3 factors of 9.

Varied Fluency 4

Find all 3 factors of 9.

1, 3, 9

Problem Solving 1

Find the missing factors and complete the square.

		54
4		8
24	18	

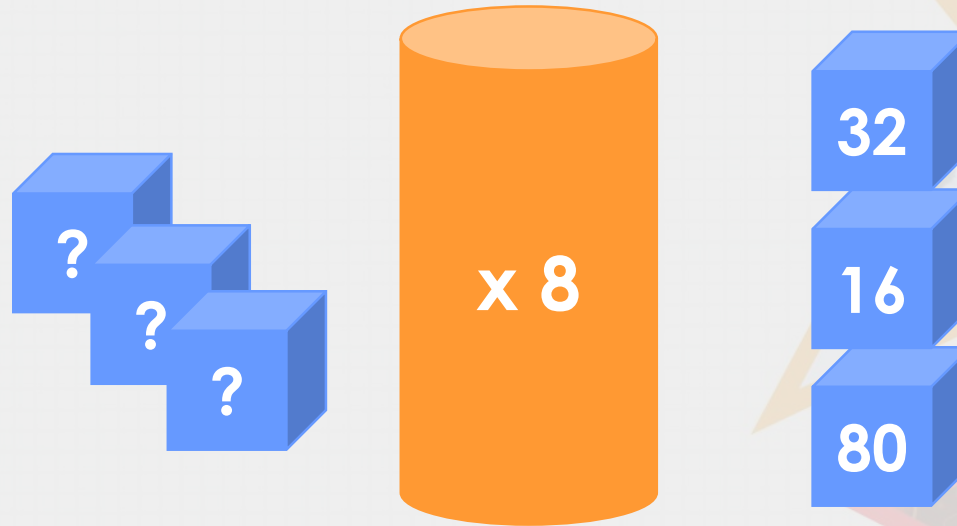
Problem Solving 1

Find the missing factors and complete the square.

6	9	54
4	2	8
24	18	

Problem Solving 2

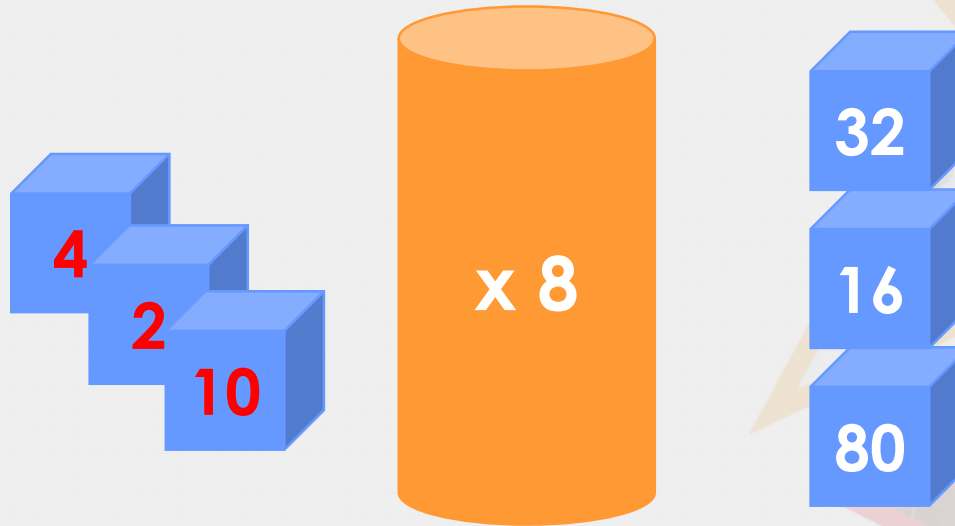
Three factors are put into the machine to make the numbers below.



Find the missing factors.

Problem Solving 2

Three factors are put into the machine to make the numbers below.



Find the missing factors.

$$4 \times 8 = 32; 2 \times 8 = 16; 10 \times 8 = 80$$

Reasoning 1

True or false?

The number 49 has three different factors.

Prove it.

Reasoning 1

True or false?

The number 49 has three different factors.

**Prove it.
True because...**

Reasoning 1

True or false?

The number 49 has three different factors.

Prove it.

True because the factors of 49 are: 1, 7 and 49.