

Year 5 – Autumn Block 4 – Multiplication and Division

Multiples of 10, 100 and 1,000

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: (5C8a) [Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes](#)

[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 10: Multiples of 10, 100 and 1,000

Introduction

Complete the calculations below using the knowledge of $7 \times 5 = 35$.

$70 \times 5 =$

$70 \times 50 =$

$700 \times 5 =$

$700 \times 50 =$

Introduction

Complete the calculations below using the knowledge of $7 \times 5 = 35$.

$70 \times 5 =$

350

$70 \times 50 =$

3,500

$700 \times 5 =$

3,500

$700 \times 50 =$

35,000

Varied Fluency 1

Use this multiplication fact to complete the calculations and find the odd one out.

$$15 \times 4 = 60$$

a. $15 \times 40 =$

b. $150 \times 40 =$

c. $150 \times 4 =$

Varied Fluency 1

Use this multiplication fact to complete the calculations and find the odd one out.

$$15 \times 4 = 60$$

a. $15 \times 40 = 600$

b. $150 \times 40 = 6,000$

c. $150 \times 4 = 600$

C is the odd one out.

Varied Fluency 2

True or false?

If $9 \times 11 = 99$ then $90 \times 110 = 9,900$

Varied Fluency 2

True or false?

If $9 \times 11 = 99$ then $90 \times 110 = 9,900$

True

Varied Fluency 3

Use this division fact to complete the calculations below.

$$4,000 \div 80 = 50$$

a. 50 x 80 =

b. 4,000 ÷ 8 =

c. 400 ÷ 8 =

Varied Fluency 3

Use this division fact to complete the calculations below.

$$4,000 \div 80 = 50$$

a. 50 x 80 = 4,000

b. 4,000 ÷ 8 = 500

c. 400 ÷ 8 = 50

Varied Fluency 4

Match the calculations to the correct answer.

a

$$3 \times 140$$

4,200

b

$$30 \times 140$$

420

c

$$3 \times 14$$

42

Varied Fluency 4

Match the calculations to the correct answer.

a

$$3 \times 140$$

4,200

b

$$30 \times 140$$

420

c

$$3 \times 14$$

42

Reasoning 1

Lila is using $34 \times 5 = 170$ to solve other calculations.

I think that 340×5 will give the same as 500×34 . They both equal 1,700.



Is she correct? Explain how you know.

Reasoning 1

Lila is using $34 \times 5 = 170$ to solve other calculations.

I think that 340×5 will give the same as 500×34 . They both equal 1,700.



Is she correct? Explain how you know.

No. Lila is incorrect because...

Reasoning 1

Lila is using $34 \times 5 = 170$ to solve other calculations.

I think that 340×5 will give the same as 500×34 . They both equal 1,700.



Is she correct? Explain how you know.

No. Lila is incorrect because $340 \times 5 = 1,700$ but $500 \times 34 = 17,000$.

Problem Solving 1

Find the missing numbers in the calculations below using the fact $2,840 \div 40 = 71$.

$$284 \div \boxed{} = 71$$

$$71 \times \boxed{} = 284$$

$$2,840 \div \boxed{} = 710$$

Write 2 more numbers sentences using this fact.

Problem Solving 1

Find the missing numbers in the calculations below using the fact $2,840 \div 40 = 71$.

$$284 \div \boxed{4} = 71$$

$$71 \times \boxed{71} = 284$$

$$2,840 \div \boxed{4} = 710$$

Write 2 more numbers sentences using this fact.

Various answers, for example: $40 \times 710 = 28,400$, $71 \times 4 = 284$ and $2,840 \div 40 = 71$.

Reasoning 2

I think that 17×300 is bigger than 30×170 .



I think that 30×170 is bigger than 17×300 .

Who is correct? How do you know?

Reasoning 2

I think that 17×300 is bigger than 30×170 .



I think that 30×170 is bigger than 17×300 .

Who is correct? How do you know?
Rosie and Yusuf are both wrong because...

Reasoning 2

I think that 17×300 is bigger than 30×170 .



I think that 30×170 is bigger than 17×300 .

Who is correct? How do you know?

Rosie and Yusuf are both wrong because 17×300 and 30×170 both equal 5,100.