

# Welcome to Year 6 Maths

The lesson will begin at 11:30am



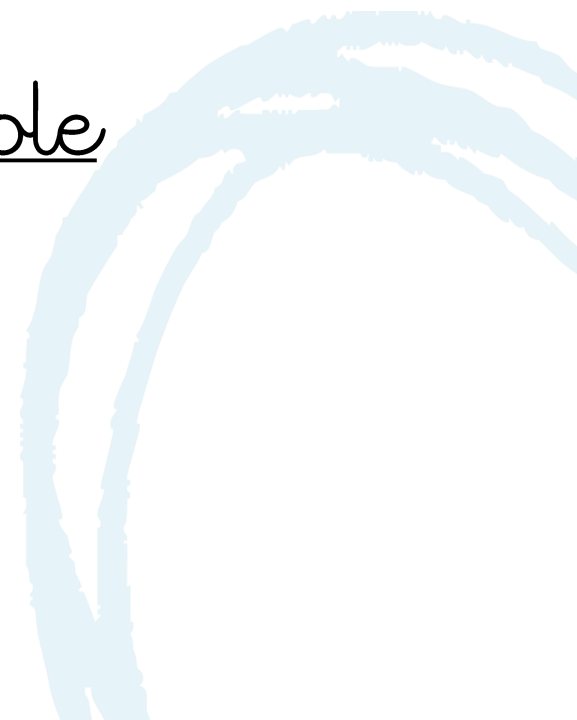
Turn your camera and microphone **off** please



20/01/21

## Maths Arithmetic

I can multiply decimals by whole numbers.

A light blue, hand-drawn brushstroke that starts from the right edge of the page and curves upwards and then downwards, resembling a large, stylized letter 'C' or a decorative flourish.



# Arithmetic

## Multiplying Decimals PDF



20/01/21

Maths

I can use a division written method for solving problems.

## Introduction

Choose one digit to fill the gap in each set of calculations.

6

5

4

9

8

**A**

$$36 \div \square = 9$$

$$2 \square \div \square = 6$$

$$\square \square \div 11 = \square$$

**B**

$$12 \div \square = 2$$

$$3 \square \div \square = \square$$

$$\square 0 \div 10 = \square$$

**C**

$$63 \div \square = 7$$

$$\square 9 \div \square = 11$$

$$\square \square \div 11 = \square$$

**D**

$$5 \square \div 6 = 9$$

$$8 \square \div 12 = 7$$

$$\square 8 \div 12 = \square$$

## Introduction

Choose one digit to fill the gap in each set of calculations.

6

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**A**

$$36 \div 4 = 9$$

$$2 \ 4 \div 4 = 6$$

$$4 \ 4 \div 11 = 4$$

**B**

$$12 \div 6 = 2$$

$$3 \ 6 \div 6 = 6$$

$$6 \ 0 \div 10 = 6$$

**C**

$$63 \div 9 = 7$$

$$9 \ 9 \div 9 = 11$$

$$9 \ 9 \div 11 = 9$$

**D**

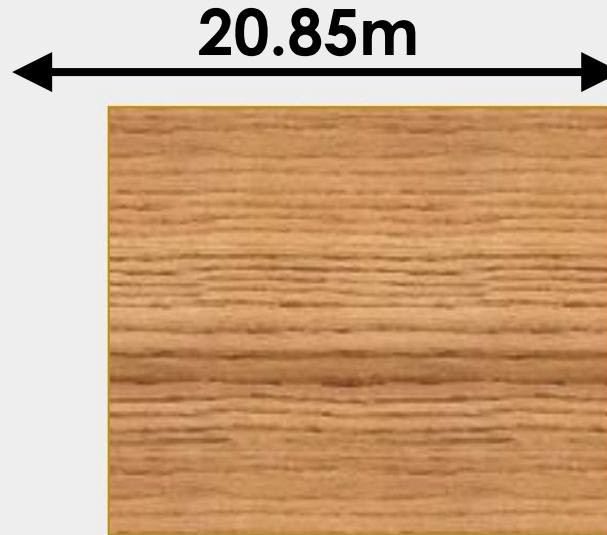
$$5 \ 4 \div 6 = 9$$

$$8 \ 4 \div 12 = 7$$

$$4 \ 8 \div 12 = 4$$

Varied Fluency 1

Dad is making a log store.

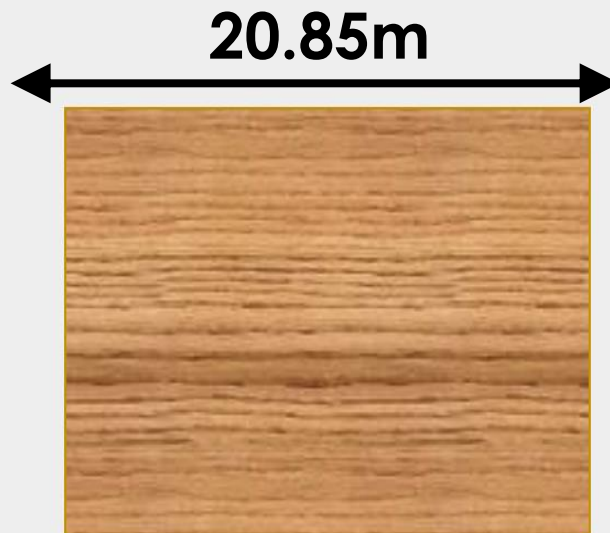


He needs 5 equal pieces from this plank.

How wide would each piece be?

Varied Fluency 1

Dad is making a log store.



He needs 5 equal pieces from this plank.

How wide would each piece be?

$$20.85\text{m} \div 5 = 4.17\text{m}$$



## Varied Fluency 2

The school bee hives produce 57.2 litres of honey each year.

4 classes share the honey to sell on their stall at the fayre.



How much does each stall have?

Varied Fluency 2

The school bee hives produce **57.2 litres** of honey each year.

**4 classes** share the honey to sell on their stall at the fayre.



How much does each stall have?

$$57.2 \text{ litres} \div 4 = 14.3 \text{ litres per class}$$

Varied Fluency 3

**A farmer sells 47.5kg of carrots every week in harvest season.**

**He sells four times as many carrots to Asdi supermarket as to the markets.**

<b>47.5kg</b>				
<b>market</b>	<b>Asdi</b>	<b>Asdi</b>	<b>Asdi</b>	<b>Asdi</b>

**How much does he sell to markets?**

Varied Fluency 3

A farmer sells 47.5kg of carrots every week in harvest season.

He sells four times as many carrots to Asdi supermarket as to the markets.

47.5kg				
market	Asdi	Asdi	Asdi	Asdi

How much does he sell to markets?

$$47.5 \div 5 = 9.5\text{kg to markets}$$

## Varied Fluency 4

Create your own word problem for the calculation.

$$34.48 \div 8 = \square$$

Now solve it!

## Varied Fluency 4

Create your own word problem for the calculation.

$$34.48 \div 8 = 4.31$$

Now solve it!

**Various possible answers for a word problem with the same solution.**

**There is 34.48kg of flour to be shared equally between 8 bakeries. How much does each bakery receive? Solution: Each bakery receives 4.31kg.**

## Problem Solving 1

**Gary thinks that he should calculate  $£6.75 \div 12$  to solve this problem. Is he correct? Explain your thinking and solve the problem.**

**The local scout group are hosting a party. There are 12 scouts altogether. They all have to pay a small amount towards the party. Nine scouts have paid so far. In total, they have £6.75. How much does each scout have to pay?**

## Problem Solving 1

**Gary thinks that he should calculate  $£6.75 \div 12$  to solve this problem. Is he correct? Explain your thinking and solve the problem.**

**The local scout group are hosting a party. There are 12 scouts altogether. They all have to pay a small amount towards the party. Nine scouts have paid so far. In total, they have  $£6.75$ . How much does each scout have to pay?**

**He is incorrect. He should calculate  $£6.75 \div 9$  which means each scout has paid 75p to attend the party.**



Reasoning 1

Edith has written the following comparisons.

**A**  $23.43 \div 3 = 62.48 \div 8$

**B**  $1.75 \div 5 > 2.16 \div 6$

**C**  $17.2 \div 4 < 21.5 \div 5$

Is she correct?

Find and explain any errors.

## Reasoning 1

Edith has written the following comparisons.

**A**  $23.43 \div 3 = 62.48 \div 8$

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Is she correct?

Find and explain any errors.

She is incorrect because...

Edith has written the following comparisons.

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**C**  $17.2 \div 4 < 21.5 \div 5$

Is she correct?

Find and explain any errors.

**She is incorrect because the answer for B should be  $0.35 < 0.36$ . The answer for C should be  $4.3 = 4.3$ . A is correct because both equal 7.81.**

## Problem Solving 2

Use the digit cards to complete the calculation.



$$\square 7 \div 4 = 4. \square \square$$

## Problem Solving 2

Use the digit cards to complete the calculation.



$$\boxed{1} \quad 7 \div 4 = 4. \quad \boxed{2} \quad \boxed{5}$$