

# Welcome to our Year 6 Maths Workshop

20-22 Jan 2026



Today, we will show you:

Spring 1 KIRF

Reflective Rick / Flashback 4

Assessment for Learning

MyminiMaths

Key Websites that can be used at home

# Our KIRF for this half term is:

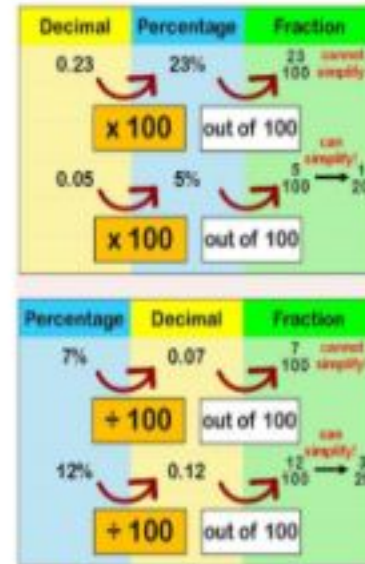
## Key Vocabulary

Fractions  
Decimals  
Percentages  
Tenths  
Hundredths

I aspire to convert between fractions, decimals and percentages.

By the end of this half term, you should know the following facts. The aim is for them to recall these facts **instantly**.

Fraction	Decimal	Diagram	Out of 100	Percentage
1/10	0.1		10/100	10%
2/10	0.2		20/100	20%
3/10	0.3		30/100	30%
4/10	0.4		40/100	40%
5/10	0.5		50/100	50%



$$\frac{1}{2} = 0.5$$

$$\frac{1}{4} = 0.25$$

$$\frac{3}{4} = 0.75$$

$$\frac{1}{10} = 0.1$$

$$\frac{1}{5} = 0.2$$

$$\frac{3}{5} = 0.6$$

$$\frac{1}{100} = 0.01$$

$$\frac{7}{100} = 0.07$$

$$\frac{21}{100} = 0.21$$

$$\frac{75}{100} = 0.75$$

$$\frac{99}{100} = 0.99$$

## Key Questions

How many tenths is 0.8?

How many hundredths is 0.23?




Can you write 0.75 as a fraction?

Can you write  $\frac{1}{4}$  as a decimal?

## Top Tips

The secret to success is practising little and often. Use time wisely. Can you practise these KIRFs while walking to school or during a car journey?

## Your Home learning this half term...

<p>Challenge 1:</p> 	<p><b>Maths Invaders.</b></p> <p>Follow the QR code and select 'convert fractions to decimals' or 'fractions to percentages'.</p> <p>Shoot the spaceship with the correct answer and dodge the incoming fire.</p> <p>A fun game to practise a wide range of key mathematical skills.</p> <p><a href="https://mathsframe.co.uk/en/resources/resource/289/KS2-Maths-Invaders">https://mathsframe.co.uk/en/resources/resource/289/KS2-Maths-Invaders</a></p>
<p>Challenge 2:</p>	<p>Draw (or use a real chocolate bar) with ten or twenty equal squares.</p> <p>Shade different parts of the bar and describe them in 3 different ways - as a fraction, as a decimal, as a percentage.</p> <p>E.g. 5 squares shaded out of 10:</p> <p>Fraction: <math>\frac{5}{10}</math></p> <p>Decimals: 0.5</p> <p>Percentage: 50%</p>
<p>Challenge 3:</p> 	<p>Make some cards with pairs of equivalent fractions and decimals. Use these to play the memory game or snap.</p> <p>If you don't have time to make your own cards there is an online memory game - follow the QR code to play!</p> <p><a href="https://nrich.maths.org/problems/matching-fractions-decimals-and-percentages">https://nrich.maths.org/problems/matching-fractions-decimals-and-percentages</a></p>
<p>Challenge 4:</p>	<p>Make your own dominoes with fractions on one side and percentages on the other. Play the game matching the conversions.</p>
<p>Challenge 5:</p> 	<p>Play this matching game.</p> <p>A flexible matching game which can help you to recognise equivalence of fractions, decimals and percentages.</p> <p><a href="https://mathsframe.co.uk/en/resources/resource/120/match-fractions-decimals-and-percentages">https://mathsframe.co.uk/en/resources/resource/120/match-fractions-decimals-and-percentages</a></p>
<p>Challenge 6:</p>	<p>Mix two juices, decide which fraction of your cup will be orange juice (e.g. <math>\frac{3}{4}</math> orange, <math>\frac{1}{4}</math> apple)</p> <p>Convert your mix into a decimal and a percentage.</p> <p>E.g. <math>\frac{3}{4} = 0.75 = 75\%</math>.</p> <p>Try new recipes and write them in all three forms.</p>



To learn this skill, you could also ....

Use **BBC Bitesize** as a good starting place  
<https://www.bbc.co.uk/teach/class-clips-video/articles/zk9ygwx>

**Corbett Maths** also has a great range of videos, worksheets and practise questions.  
<https://corbettmaths.com/contents/>

There are also lots of games on the **Topmarks** website to practise this skill and others  
<https://www.topmarks.co.uk/maths-games/7-11-years/fractions-and-decimals>

FDP: percentages to decimals [Video 121](#) [Practice Questions](#) [Textbook Exercise](#)

FDP: percentages to fractions [Video 122](#) [Practice Questions](#) [Textbook Exercise](#)

FDP: decimals to fractions [Video 123](#) [Practice Questions](#) [Textbook Exercise](#)

FDP: decimals to fractions (calc) [Video 124](#) [Practice Questions](#) [Textbook Exercise](#)

FDP: decimals to percentages [Video 125](#) [Practice Questions](#) [Textbook Exercise](#)

FDP: fractions to percentages [Video 126](#) [Practice Questions](#) [Textbook Exercise](#)

FDP: fractions to decimals [Video 127](#) [Practice Questions](#) [Textbook Exercise](#)

FDP: fractions to decimals (calc) [Video 128](#) [Practice Questions](#) [Textbook Exercise](#)

FDP: key equivalents [Video 129](#) [Practice Questions](#) [Textbook Exercise](#)

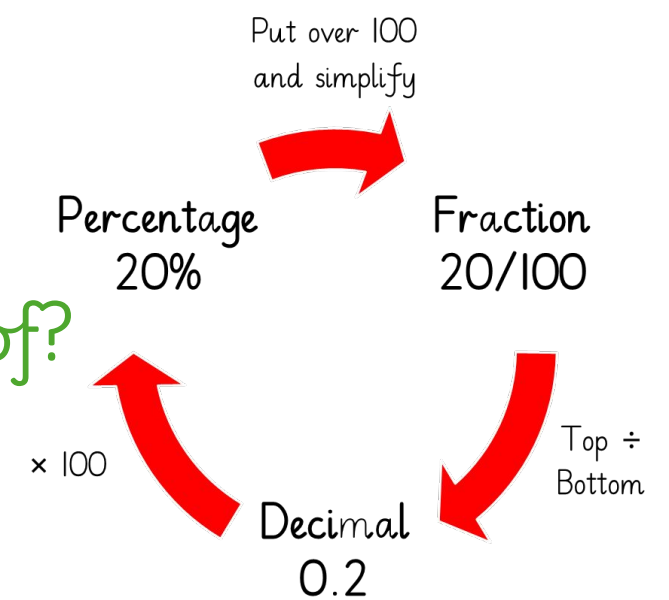
FDP: mixture [Video 130](#) [Practice Questions](#) [Textbook Exercise](#)

FDP: ordering [Video 131](#) [Practice Questions](#) [Textbook Exercise](#)

The screenshot shows the Topmarks website interface. At the top, there is a navigation bar with links for 'Topmarks Search', 'Whiteboard Resources', 'Learning Games', 'Topmarks Apps', and 'Topmarks Blog'. Below this, there is a section for 'Play these fun Maths Games for 7-11 year olds' with tabs for '3-5 Years', '5-7 Years', '7-11 Years', and '11-16 Years'. The '7-11 Years' tab is selected. On the left, there are icons for 'Maths' and 'English'. The main content area is titled 'Choose a Category:' and lists various math topics: 'Ordering and Sequencing', 'Mental Maths', 'Place Value', 'Addition and Subtraction', 'Times Tables', 'Multiplication and Division', 'Fractions and Decimals' (which is highlighted), and 'Money'. Below this, there is a section for 'Fractions and Decimals Games' with a description: 'Free fun maths games can help children's understanding of fractions and decimals. They cover a range of skills from identifying basic fractions of shapes and numbers of objects to ordering fractions and converting fractions to decimals or percentages. There are also games involving finding equivalences and cancelling down.'

# Let's show what we know!

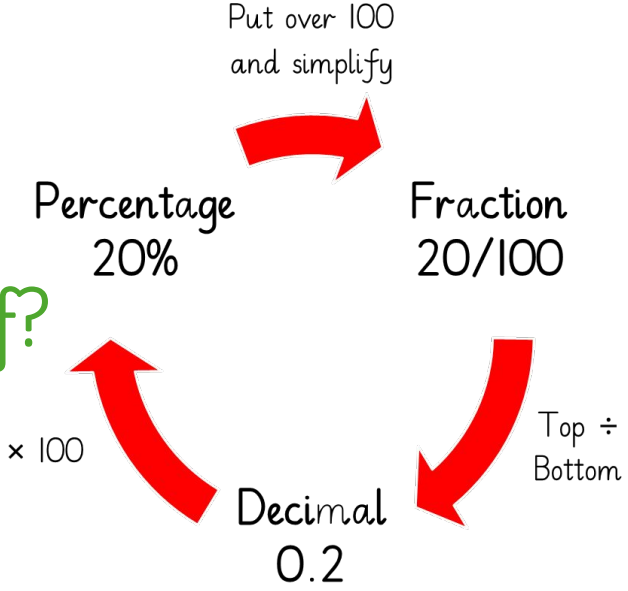
Challenge: what other equivalents can you think of?



	Decimal Fraction	Simplified Fraction	Decimal	Percentage
1	5/10			
2		3/5		
3			0.4	
4				75%

# Let's show what we know!

Challenge: what other equivalents can you think of?



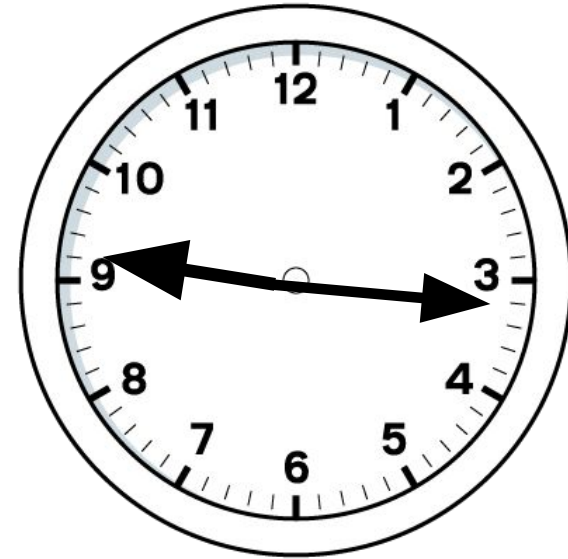
	Decimal Fraction	Simplified Fraction	Decimal	Percentage
1	5/10			
2		3/5		
3			0.4	
4				75%

# Reflective Rick / Flashback Four Tasks

These are used at the start of every lesson to access prior learning – skills and methods taught earlier in the school year.

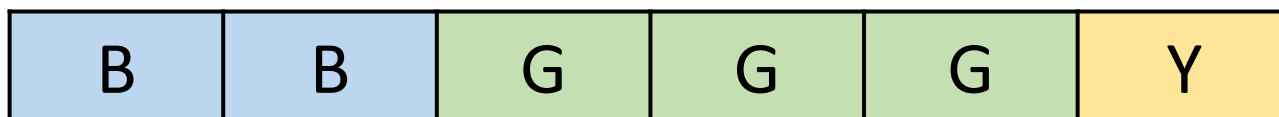






1) On a scale diagram, 6 cm represents 1 m.  
What does 72 cm represent?

2) Write the ratio of blue to green to yellow.



3) Choose the most appropriate estimate for the mass of a banana.

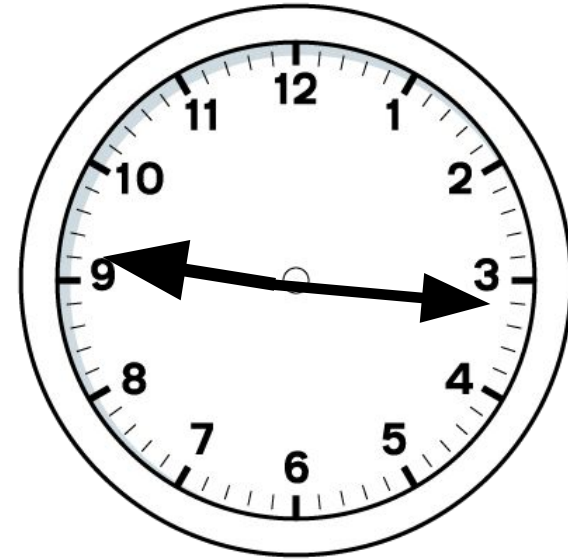
1 g

10 g

100 g

1 kg

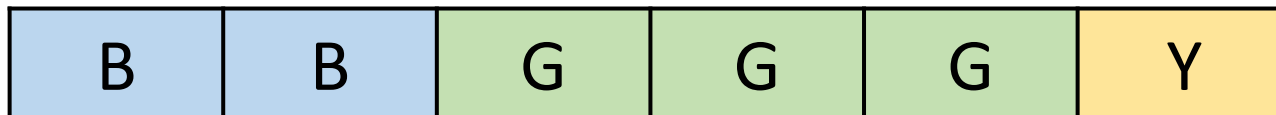
4)  $19 \times 472 =$



09:16

- 1) On a scale diagram, 6 cm represents 1 m.  
What does 72 cm represent? **12 m**

- 2) Write the ratio of blue to green to yellow.

**2 : 3 : 1**

- 3) Choose the most appropriate estimate for the mass of a banana.

1 g

10 g

100 g

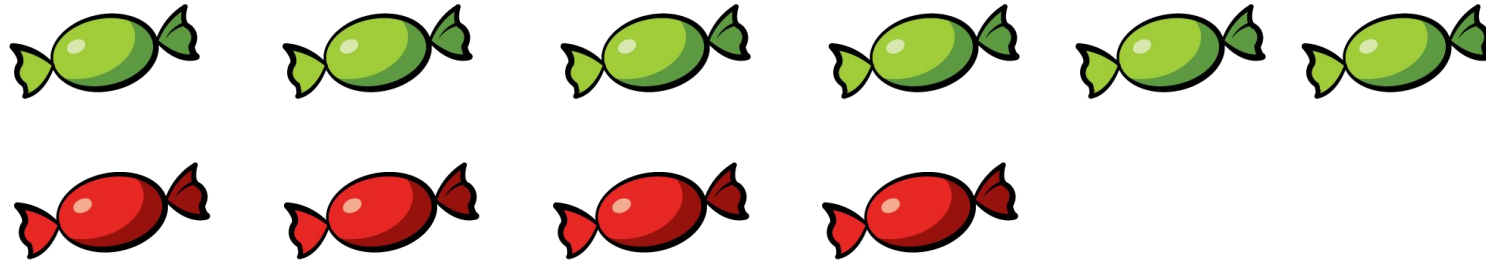
1 kg

- 4)  $19 \times 472 =$  **8,968**

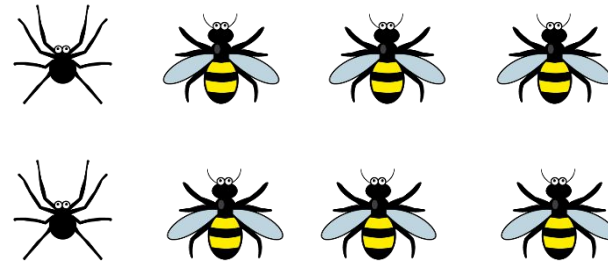
# Assessment For Learning

As we move into the learning for the day, we pose a few more questions – checking knowledge which will be needed for the learning ahead.

1) For every 6 green sweets there are  
\_\_ red sweets.

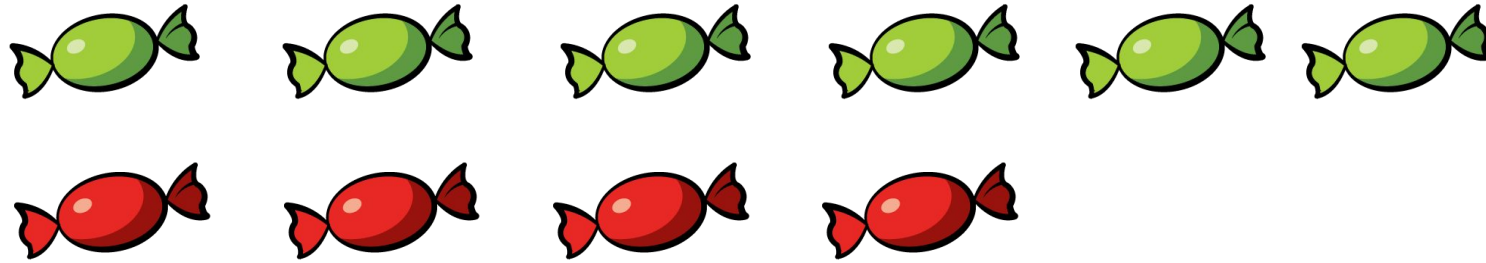


2) For every 2 spiders there are \_\_  
bees.

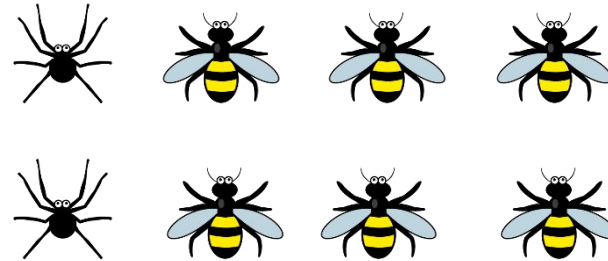


For every 1 spider there  
are \_\_ bees.

1) For every 6 green sweets there are 4 red sweets.



2) For every 2 spiders there are 6 bees.



For every 1 spider there are 3 bees.



## Main Learning



After completing this, we then know who is ready to move on to the days learning or who may need more support.



# MyminiMaths


To improve understanding, confidence and fluency of arithmetic, we use these resources in the classroom (during Key Skills and Arithmetic Tests) and interventions.

Arithmetic 16 <b>2026</b> Target Question 1			SCAN the QR code for extra help with target question 1...	
1a	$4 \times 6 \times 10 =$			1 mark
1b	$22 \times 1 \times 10 =$			1 mark
1c	<input type="text"/> $\times 5 \times 10 = 350$			1 mark
1d	$2 \times 7 \times 20 =$			1 mark

 DAY 1 ARITHMETIC MISSIONS 2026 1 	
CREDITS: 19 TARGET QUESTION 1	
FLUENCY	VARIED APPLICATION
★ $3 \times 4 \times 10 =$	★ $40 \times 60 \times 20 =$ <input type="text"/>
★ $66 \times 10 \times 1 =$	★ <input type="text"/> $= 300 \times 10 \times 90$
★ <input type="text"/> $\times 7 \times 2 = 420$	★ $80 \times 5,000 \times 700 =$ <input type="text"/>
★ $8 \times 20 \times 4 =$	
INTELLIGENT QUESTIONING	
★ $0.2 \times$ <input type="text"/> $= 6$	
★ <input type="text"/> $\times 0.5 = 4$	
★ $900 \times$ <input type="text"/> $= 540$	

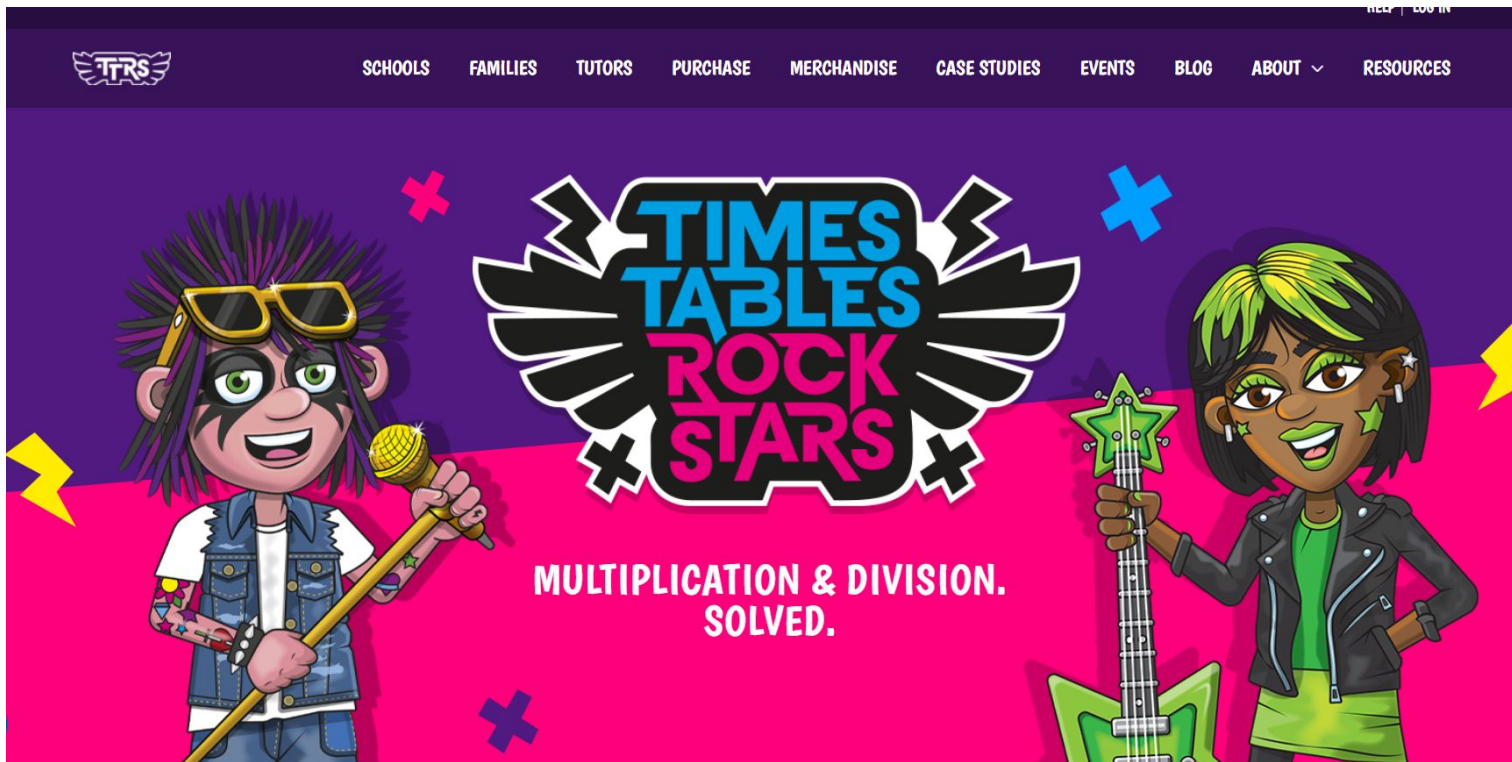
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SATs Arithmetic 2026 Practice Paper			Don't forget to record your answers on your personal tracker, to help identify your target questions...	Paper 1
1	$1 \times 25 \times 10 =$			1 mark
2	$63 + 276 =$			1 mark
3	$\frac{2}{7} + \frac{6}{7} =$			1 mark
4	$307 \div 1 =$			1 mark

# Helpful websites to consolidate learning

[www.ttrockstars.com](http://www.ttrockstars.com)



# Helpful websites to consolidate learning

[www.mathsbot.com](http://www.mathsbot.com)

Primary > KS2 Arithmetic Paper(compact)

Work out on paper

Type in the answers

'MARK' (tab at the top)

If an answer is wrong, and you'd like to practise, click the number of the question (1,4,9 etc- they will turn green)

Click 'NEW' and it will create an arithmetic paper with just these questions.



# Helpful websites to consolidate learning Mathsbot.com

<div> New 36 Reset Mark 0/36 Answers Print <input type="checkbox"/> </div>					
1	$782 + 788 + 3577 =$ <input type="text"/>	<input type="radio"/>	19	$692 \times 16 =$ <input type="text"/>	<input type="radio"/>
2	$753 \times 1 =$ <input type="text"/>	<input type="radio"/>	20	$48.27 \times 100 =$ <input type="text"/>	<input type="radio"/>
3	<input type="text"/> $+ 30 = 620$	<input type="radio"/>	21	$1\frac{4}{5} + 1\frac{1}{5} =$ <input type="text"/>	<input type="radio"/>
4	$9200 \div 2 =$ <input type="text"/>	<input type="radio"/>	22	$\frac{3}{5}$ of 40 = <input type="text"/>	<input type="radio"/>
5	<input type="text"/> $+ 20 = 155$	<input type="radio"/>	23	$9 -$ <input type="text"/> $= 4.771$	<input type="radio"/>
6	$6.84 + 8.3 =$ <input type="text"/>	<input type="radio"/>	24	$\frac{1}{8} \div 3 =$ <input type="text"/>	<input type="radio"/>
7	$420 \div 7 =$ <input type="text"/>	<input type="radio"/>	25	$\frac{1}{3} + \frac{1}{4} =$ <input type="text"/>	<input type="radio"/>
8	$3521 \div 7 =$ <input type="text"/>	<input type="radio"/>	26	$39 - 5.604 =$ <input type="text"/>	<input type="radio"/>
9	$9948 - 5115 =$ <input type="text"/>	<input type="radio"/>	27	40% of 5200 = <input type="text"/>	<input type="radio"/>
10	$1105 \times 10 =$ <input type="text"/>	<input type="radio"/>	28	2% of 7000 = <input type="text"/>	<input type="radio"/>
11	$200 \div 5 =$ <input type="text"/>	<input type="radio"/>	29	$13 \times 1.7 =$ <input type="text"/>	<input type="radio"/>
12	$9 \times 7 \times 10 =$ <input type="text"/>	<input type="radio"/>	30	70% of 237 = <input type="text"/>	<input type="radio"/>
13	$1200 \div 12 =$ <input type="text"/>	<input type="radio"/>	31	$\frac{4}{7} \times \frac{4}{7} =$ <input type="text"/>	<input type="radio"/>
14	$300000 - 300 =$ <input type="text"/>	<input type="radio"/>	32	$4\frac{1}{5} - \frac{3}{6} =$ <input type="text"/>	<input type="radio"/>
15	<input type="text"/> $= 937 \times 8$	<input type="radio"/>	33	$2760 \div 92 =$ <input type="text"/>	<input type="radio"/>



# Helpful websites to consolidate learning

[www.corbettmathsprimary.com](http://www.corbettmathsprimary.com)

Scroll down to VIDEOS

Each skill has a video to watch where the method is clearly explained.

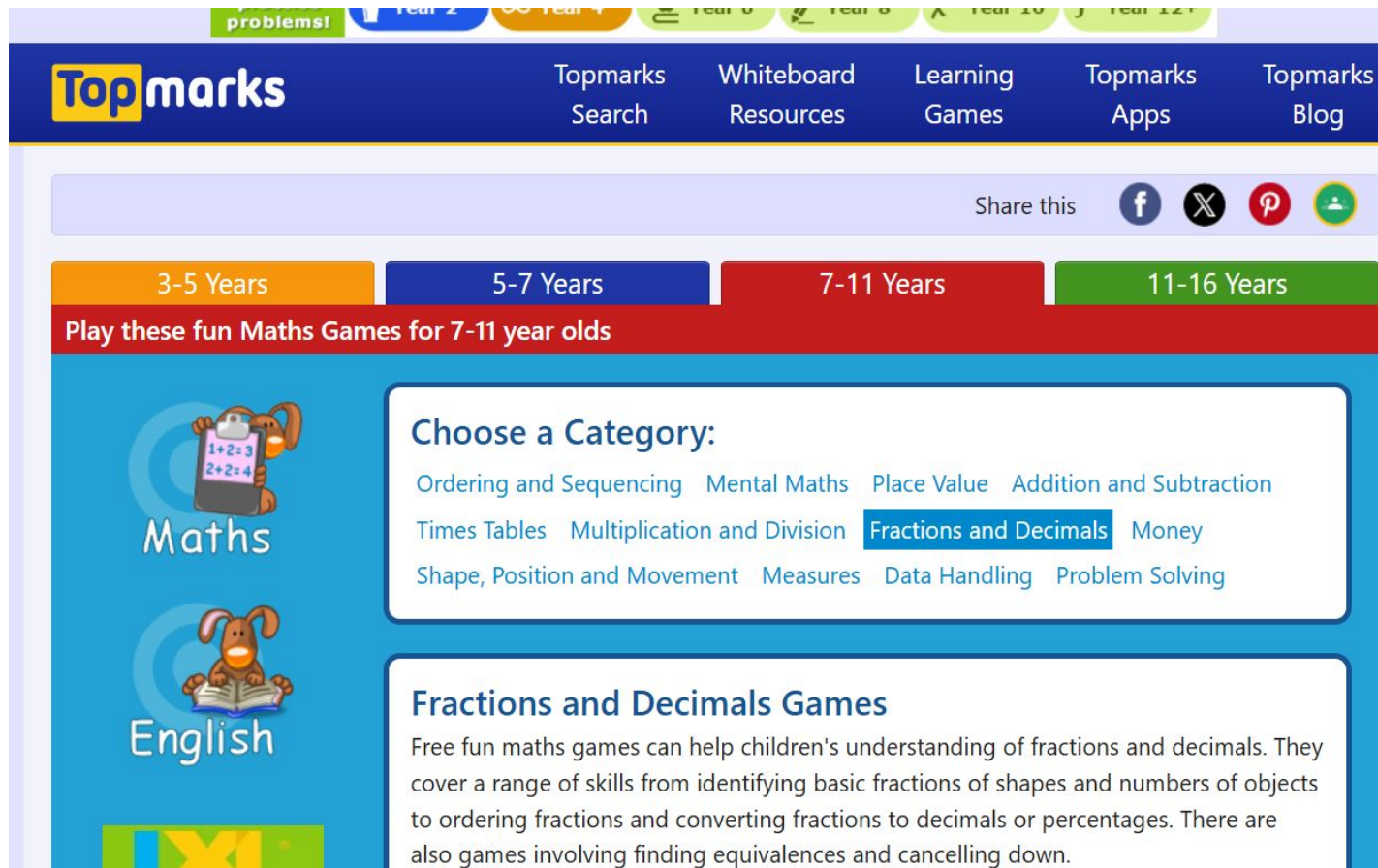
There are then practise questions and answers to check your learning.





# Helpful websites to consolidate learning

[www.topmarks.co.uk/Search.aspx?Subject=16&AgeGroup=3](http://www.topmarks.co.uk/Search.aspx?Subject=16&AgeGroup=3)



The screenshot shows the Topmarks website interface. At the top, there is a navigation bar with the Topmarks logo and links to Search, Whiteboard Resources, Learning Games, Topmarks Apps, and Topmarks Blog. Below this is a search bar and social media sharing icons. A horizontal menu allows users to select an age group: 3-5 Years, 5-7 Years, 7-11 Years (selected), and 11-16 Years. Below the age group selection, a red banner reads "Play these fun Maths Games for 7-11 year olds". The main content area is divided into two columns. The left column features icons for "Maths" (a dog holding a calculator) and "English" (a dog reading a book). The right column contains a "Choose a Category:" section with a list of topics: Ordering and Sequencing, Mental Maths, Place Value, Addition and Subtraction, Times Tables, Multiplication and Division, Fractions and Decimals (highlighted), Money, Shape, Position and Movement, Measures, Data Handling, and Problem Solving. Below this is a section titled "Fractions and Decimals Games" with a paragraph of text.

Topmarks

Topmarks Search Whiteboard Resources Learning Games Topmarks Apps Topmarks Blog

Share this

3-5 Years 5-7 Years 7-11 Years 11-16 Years

Play these fun Maths Games for 7-11 year olds

Maths

English

Choose a Category:

Ordering and Sequencing Mental Maths Place Value Addition and Subtraction Times Tables Multiplication and Division Fractions and Decimals Money Shape, Position and Movement Measures Data Handling Problem Solving

Fractions and Decimals Games

Free fun maths games can help children's understanding of fractions and decimals. They cover a range of skills from identifying basic fractions of shapes and numbers of objects to ordering fractions and converting fractions to decimals or percentages. There are also games involving finding equivalences and cancelling down.

