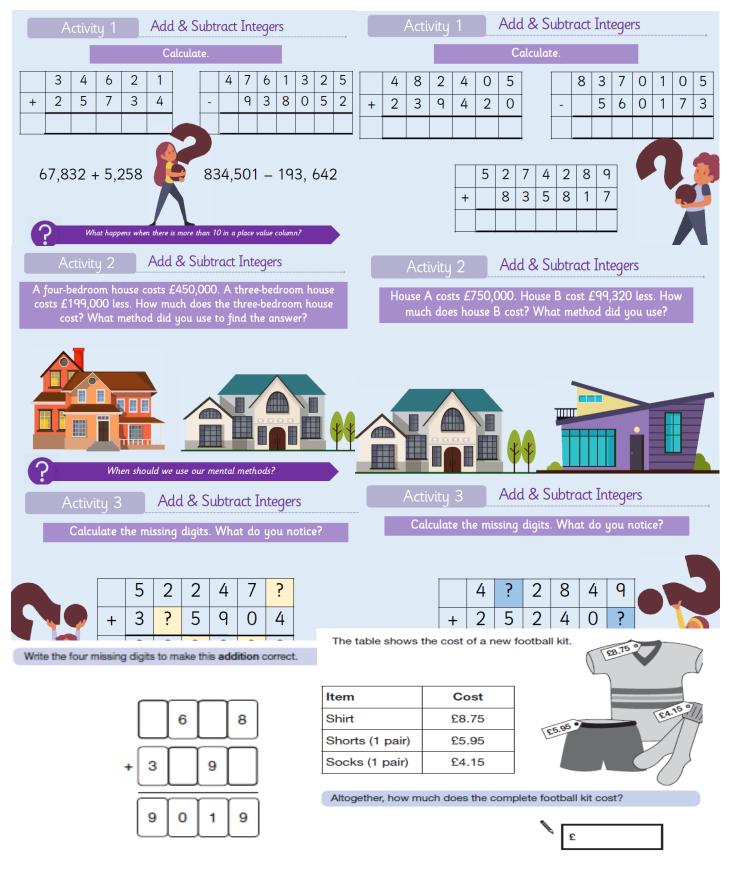
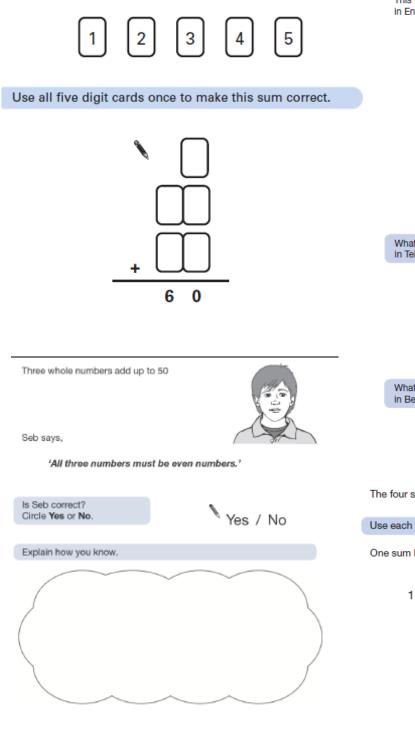
Year 6 Maths Home Learning -Revision



Maths- addition and subtraction

Here are five digit cards.



This table shows the number of people living in various towns in England.

Town	Population
Bedford	82,448
Carlton	48,493
Dover	34,087
Formby	24,478
Telford	166,640

What is the **total** of the numbers of people living in Formby and in Telford?

What is the **difference** between the numbers of people living in Bedford and in Dover?

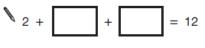
The four sums below can be completed using only the numbers 1 to 8

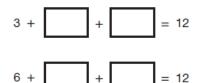
Use each number once to complete the sums.

One sum has been done for you.

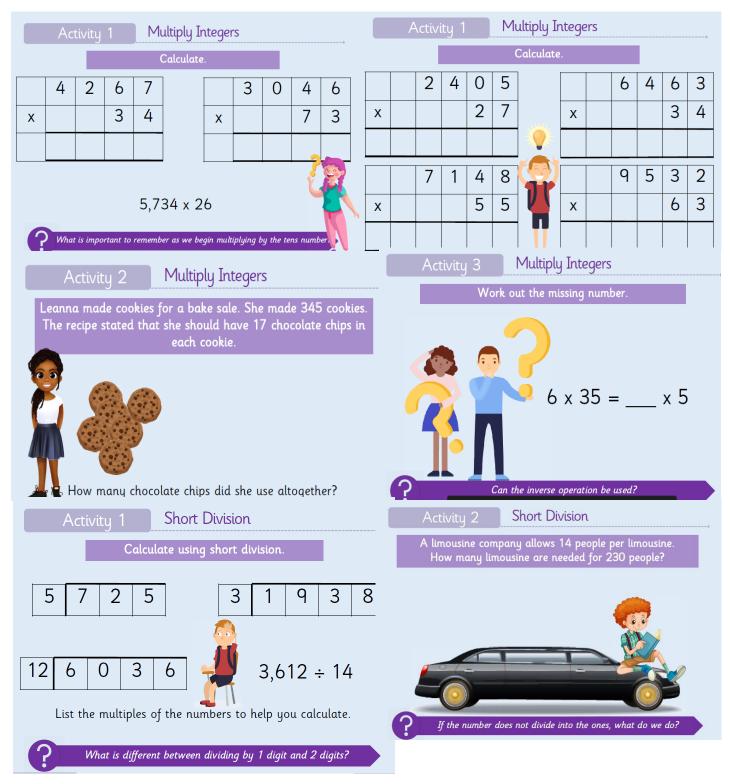
1 2 3 4 5/ 6/7 8

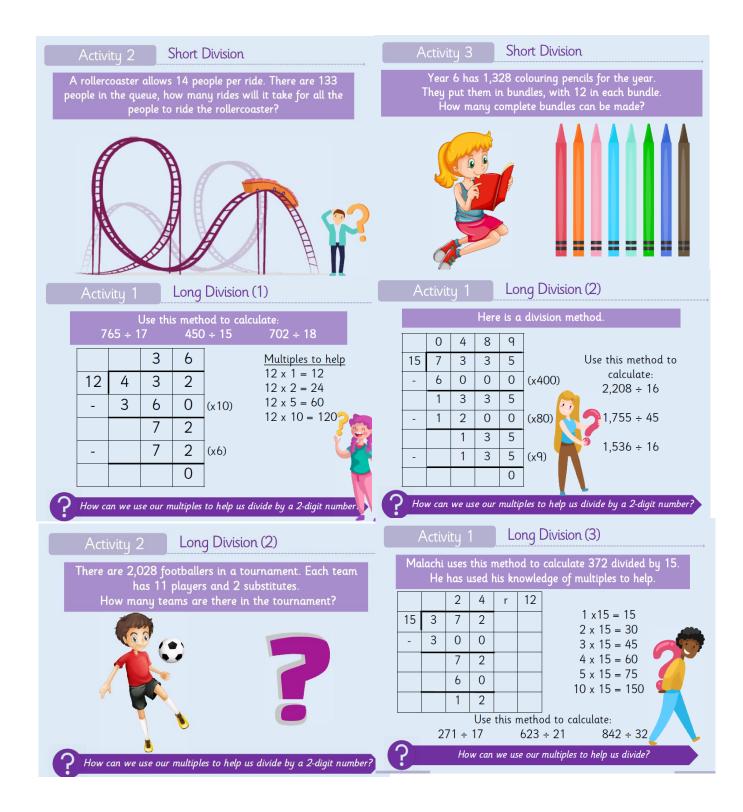


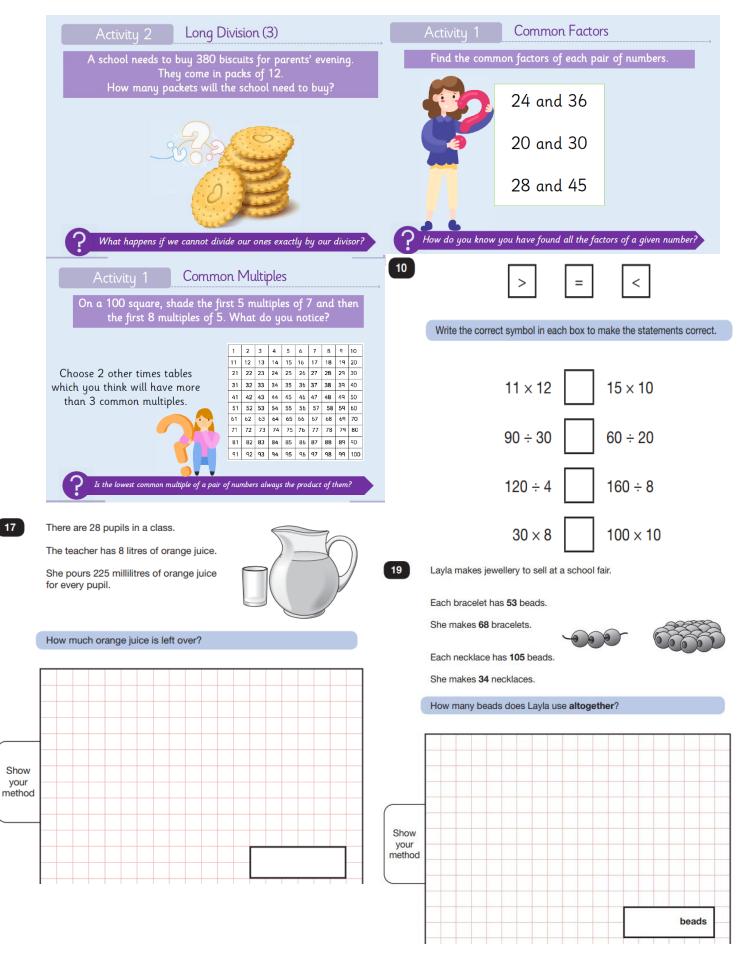


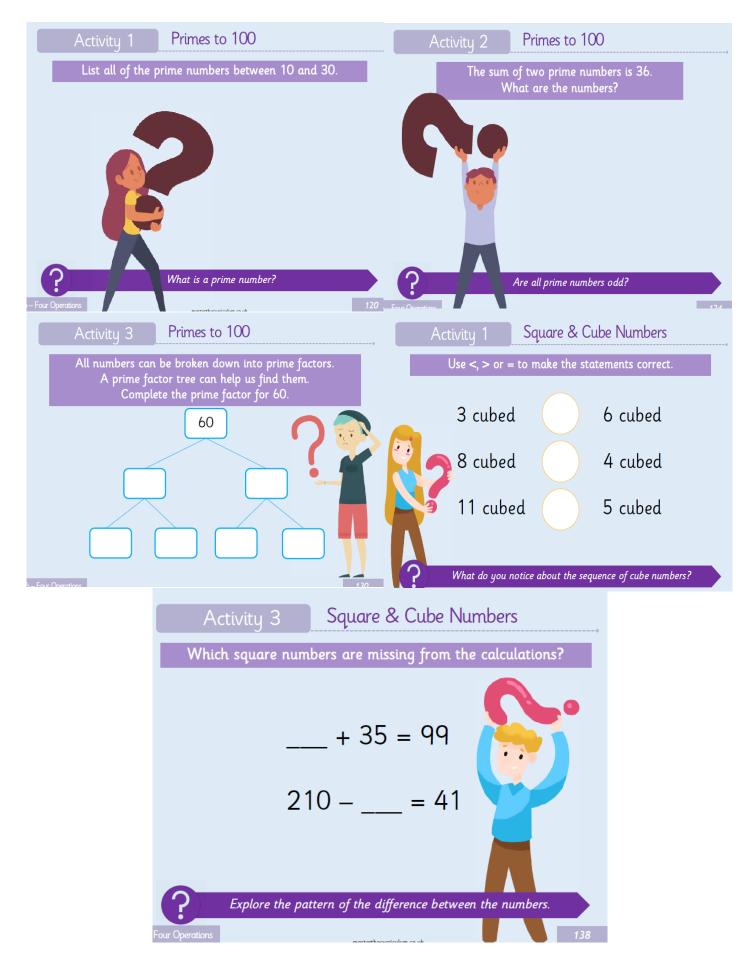


Maths- multiplication and division

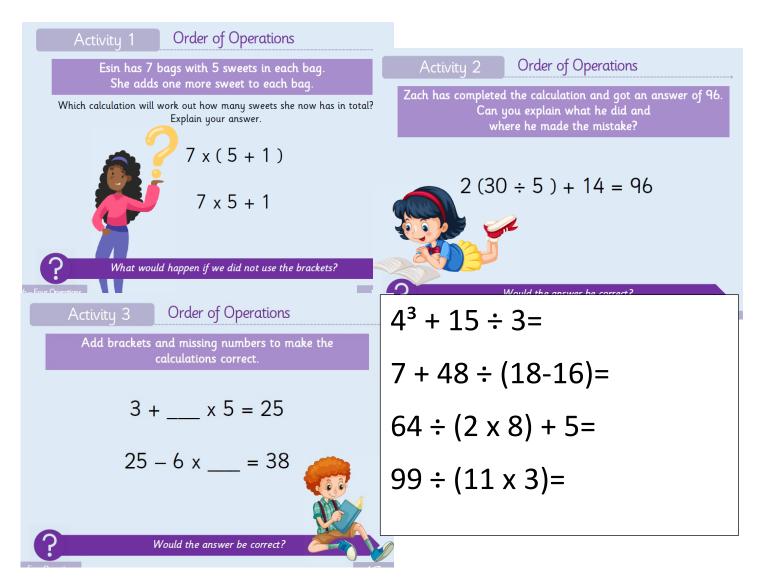






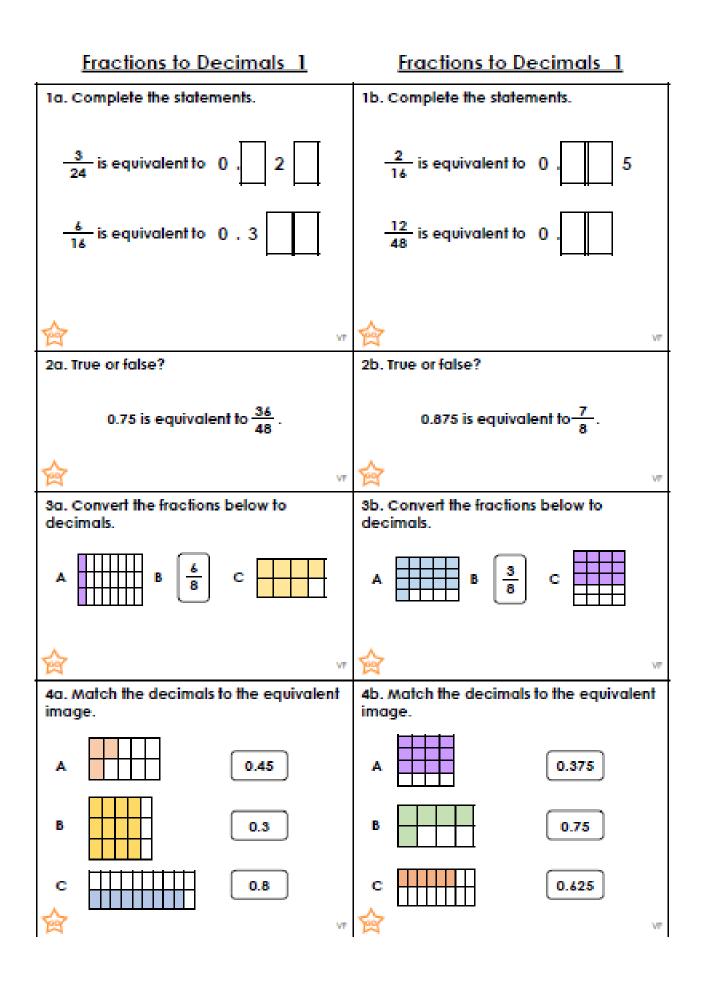


BODMAS (brackets, order, division, multiplication, addition, subtraction)



<u>Algebra</u>

'	3n - 3 = 21 6n + 5 = 41
'	3n - 5 = 10 3n + 2 = 17
'	5n - 16 = n + 20 3n + 3 = 2n + 8



Fractions, decimals and percentages

Fill in the missing gaps in the table below- the first one has been done for you to refresh your memory (remember to convert your decimal to a fraction by converting it to a tenth or hundredth) Can you simplify the fraction?

Fraction	Decimal	Percentage
40	0.4	40%
100		
<u>5</u>	0.5	
10		
	0.25	25%
<u>63</u>		
100		
<u>2</u>		20%
10		
	0.1	
<u>3</u>		
4		
	0.99	

1. Tom and Sam shared equally one quarter of a chocolate bar.

What percentage of the chocolate bar did each child get?

2. Sharif says:

"All you do when converting percentages to decimals is put '0.' in front of the number e.g. 78% is 0.78."

Do you agree? Prove it!

- 3. Three friends were competing in a race.
- Billy completed half of the race.
- Harrison completed 50% of what Billy completed
- Charlotte completed 0.25 of what Billy completed.

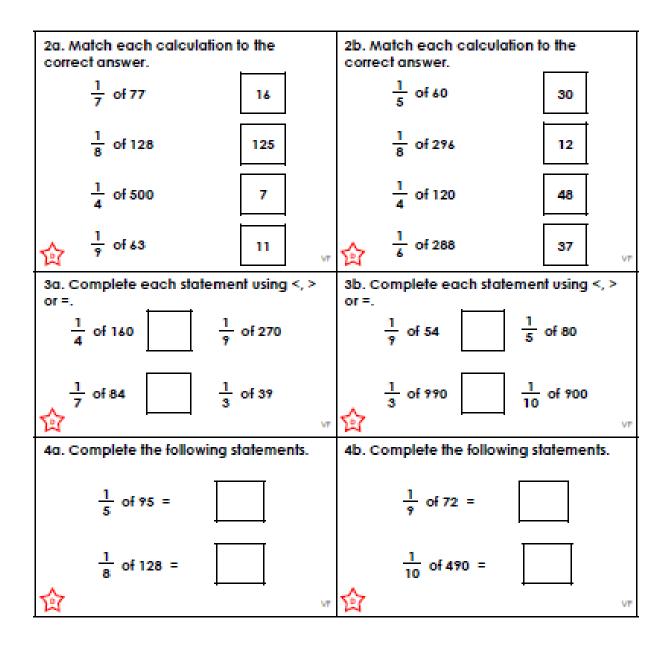
What fraction of the race did they each complete?

Fluency				
	g contains some pours $1/2$ of the	milk. e milk into a glass. 🚟	Use diagrams to show what happens when you try to add:	
Josh pours 3/10 of the glass.		e milk into _{sie} another	$\frac{1}{5} + \frac{2}{10}$	
What fraction of the milk is left?			Show the different steps.	
Work out the following:				
$1.^{3}/_{4} + ^{2}/_{5}$ $2.^{10}/_{12} - ^{1}/_{3}$ $3.1^{6}/_{8} + 2^{3}/_{5}$ $4.4^{1}/_{8} - 1^{3}/_{4}$			4.4 ¹ / ₈ -1 ³ / ₄	
5. $\frac{3}{7} - \frac{1}{5}$ 6. $\frac{2}{10} + \frac{3}{8}$ 7. $\frac{4}{9} + \frac{25}{6}$ 8. $\frac{53}{7} - \frac{26}{5}$				
Reasoning				
Bashir says: "I do not need to do any written calculations to solve $\int_{\frac{1}{2}}^{\frac{1}{2}} / B + \frac{2}{4} \int_{\frac{1}{2}}^{\frac{1}{2}}$ Do you agree? Explain how you	Emily says: "When you add fractions together the answer is actually smaller because when the numerator is a bigger number the piece is actually smaller." What mistake has Emily made? Explain your answer using a diagram.		Rajesh doesn't understand why the denominator doesn't change when adding fractions but the numerator does. Can you explain why?	
Problem Solving				
If the answer to a word problem involving subtracting fractions with different denominators is:		Katie subtracted $^{3}/_{5}$ away from a fraction should be ranswer was $^{8}/_{45}$.		
¹⁴ / ₃₂		What was the origi	_	

What could the question be?

Fluency			
Work out the following:			
1. $\frac{1}{4} \times 5$ 2. $\frac{1}{12} \times \frac{1}{3}$ 3. $\frac{2}{6} \times 6$		a - a	
^{5. 1} / ₅ ÷ 3 6. ¹ / ₂	8. ¹ /7 ÷ ¹ /4		
Use a diagram to represent Try to represent these calculations:		Solve one	
For example:	seventh shared between 6		
Reasoning			
Ginny is multiplying the following sum: $\frac{1}{5} \times \frac{1}{6} \cong$ The answer she gets is $\frac{2}{30}$ Explain what she has done.	Betty says: "When you divide a fraction by a whole number the answer is bigger than the original fraction." Is she correct? Convince me! (Hint: Use a diagram)	Draw a diagram to represent the calculation below. $\frac{1}{6} \times \frac{1}{8}$ Explain what you have drawn and why.	
Problem Solving			
b	he shaded square in the grid elow is the answer to a nultiplying fractions question.	Becky's mum ordered a pizza for her and her friends. By the time they arrived home	
	that is the answer, what is the uestion?	there was only ⁷ / ₁₂ of it left. When she shared it among her friends they each got ⁷ / ₇₂ . How many friends did [®] Becky have with her?	

Fraction of amounts



Percentages

Reminders- to find 10% divide the whole number by 10, to find 1% divide the whole number by 100.

53% of 276

65% of 987

33% of 856

45% of 145

78% of 892

13% of 789

24% of 423

99% of 1932