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R	latio	o and	Prop	port	tion		Fractions, Decimals and %										+ - x ÷										E can					
Reduce a given ratio to its lowest terms.	Solve simple ratio and proportion problems.	Solve problems involving similar shapes where the scale factor is known or can be found.	e.g. 3/5 of the class are boys etc.	Solve problems involving unequal sharing and grouping	Solve problems involving the relative sizes of 2 oughtities	Find a percentage of any given number.	specified degrees of accuracy.	Solve problems which require answers to be rounded to	has up to 2 decimal places.	Use written division methods in cases where the answer	whole numbers.	Multiply 1-digit numbers with up to 2 decimal places by	1/6).	Divide proper fractions by whole numbers (e.g. $1/3 \div 2$ =	answer in its simplest form (e.g. $1/4 \ge 1/2$)	Multiply simple pairs of proper fractions writing the	equivalent fractions.	denominators and mixed numbers using the concept of	Add and subtract fractions with different	out calculations involving the 4 operations.	Use my knowledge of the order of operations to carry	estimations to check answers to calculations.	Solva multi-stap problems involving the 4 rules and use	context.	fractions or by rounding, as appropriate for the	interpret remainders as whole number remainders,	up to 20 using the officient written method and	Divide numbers up to 4-digits by a 2-digit whole number	operations and large numbers.	Perform mental calculations, including with mixed	Add and subtract using negative numbers.	Maths - Year 6 (expected)

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How to help your child at home and have fun!

The **National curriculum** maths objectives for children in Year 6 are on the back of this leaflet.

Some targets are harder than they seem.

For example, a child may be able to work out sums on paper but they need to be able to decide on the most efficient method. Using different strategies for working out calculations is a good way to more reliably check answers too.

Maths in Year 6–Games to play:

Favourite food

 Ask your child to find the cost of their favourite food. Ask them to work out what 7 of them would cost. Repeat this with their least favourite. What is the difference in cost between the two amounts.

Sale of the century

 When out (or in magazine and newspapers or even on the TV) look for sale signs and work out what some of the items would cost. Ask them to explain how they calculate:

50% off 25% off 10% off 5% off

TV addicts

 Ask your child to keep a record of how long they watch TV or use a screen over a week, Then, work out the total watching time. Work out

total watching time. Work out the mean average of time per day. Do the same with how much time they spend playing outside or eating meals.



Four in a line

Draw a 6 x 7 grid and fill it randomly with numbers between 1 and 100. Roll 3 dice (or one, 3 times) Use all numbers with any operations to try to make a number on the grid. So if you rolled a 3, 4 and 5 you could make... 3 x 4—5 = 7 54 ÷ 3 = 18 (4 + 5) x 3 = 27 etc so you could cover the 7 or the 18 or the 27. First to get 4 in a row wins.

Fours

 Use exactly four 4s each time. You can + - x or ÷ How many of the numbers between 1 and 100 can you make—this will take several days to complete! Eg:

 $1 = (4x4) \div (4x4) \qquad 2 = (4 \div 4) + (4 \div 4)$

Maths in Year 6–Games to play:

Recipes

• Find a recipe for four people and rewrite it for 8 people. What about 2 people. Now can you work out how much of everything is needed for 3 people?

3 in a row

You will need a calculator for this game. Draw a decimal number line. Take it in turns to choose a fraction. Use the calculator (if necessary) to convert the fraction into a decimal. Eg: 2/5 = 2 ÷ 5 = 0.4 Mark it on the line and write your initials. The aim is to get 3 crosses in a row of your initials without someone else's cross getting in between.



Flowers

LK Think of a flower. Use an alphabet code A = 1 B= 2 etc Find the numbers for the first and last letters of your flower. Then multiply the numbers together. Whoever has the biggest answer wins the point eg:

ROSE $R = 18 E = 5 18 \times 5 = 90$ First to 10 wins. You could play using other categories like: animals, countries or football teams.

Journeys

 Use a map or google maps to find the distances between cities. Eg: York to Preston is 90 miles. Ask the child to calculate how long it would take to drive there if you stuck to an average speed of 60mph ie: 1 mile per minute. Encourage the use of the 6 times tables to help them work it out.

Doubles and trebles

• Roll 2 dice. Multiply the 2 numbers. This is your score. Roll again, If your total is even, double your score. If it is odd, treble it. The first to get over 301 wins.