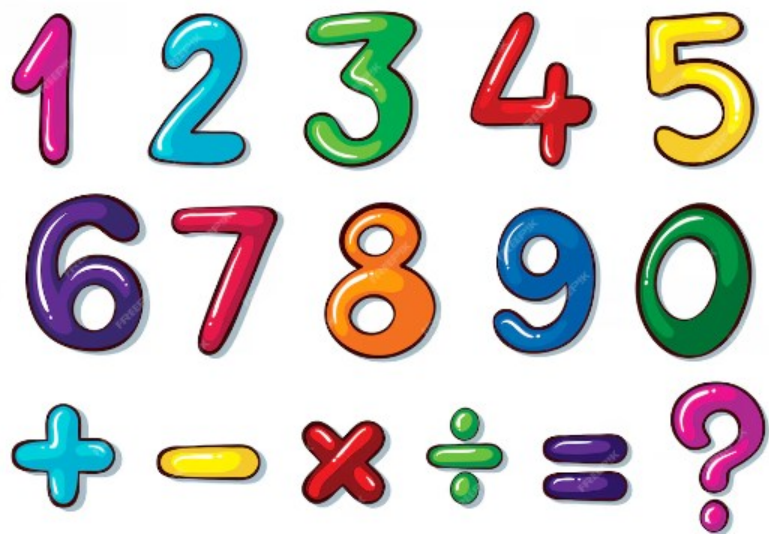


Greythorn Primary School

Maths

Y6



Year 6

- Use negative numbers in context and calculate intervals across zero.
- Read, write, compare and order numbers up to 10,000,000.
- Identify common factors, common multiples and prime numbers.
- Round any whole number to a required degree of accuracy.
- Identify the value of each digit to 3 decimal places.
- Use knowledge of order of operations to carry out calculations involving four operations.
- Use estimations to check answers to calculations.
- Add and subtract using column method with numbers up to 10 million inc. decimals
- Multiply numbers up to 4-digit by 2-digit using short and long multiplication
- Divide numbers up to 4-digit by 2-digit using short and long division
- Solve problems including reasoning in all 4 operations
- Find equivalents, compare and order fractions, decimals and percentages
- Add and subtract fractions with different denominators and mixed numbers.
- Multiply whole numbers by fractions and mixed numbers by whole numbers
- Multiply simple pairs of proper fractions, writing the answer in the simplest form.
- Divide proper fractions by whole numbers.
- Calculate % of whole number.
- Solve problems involving ratio, proportion and scale factors
- Use simple formulae and express missing number problems algebraically
- Describe number sequences
- Read, write and convert between standard units of measure.
- Calculate area and perimeter of 2D shapes and volume of 3D shapes
- Find unknown angles using angle rules
- Draw, translate and reflect 2D shapes on coordinate grids
- Name the parts of a circle and know the relationship between radius and diameter
- Identify and plot coordinates on a full grid (4 quadrants)
- Interpret and construct pie charts and line graphs
- Calculate and interpret the mean average.

Fun activities to do at home

Favourite food

- Find the cost of a favourite item of food.
- Ask them to work out what 7 of them would cost, or 8, or 9.
- How much change would there be from £50?
- Repeat with his / her least favourite food. What is the difference in cost between the two?

Sale of the century

- When you go shopping, or see a shop with a sale on, ask your child to work out what some items would cost with: 50% off 25% off 10% off 5% off
- Ask your child to explain how she worked it out.

Recipes

Find a recipe for 4 people and rewrite it for 8 people.

4 people

125g flour
50g butter
75g sugar
30ml treacle
1 teaspoon ginger

8 people

250g flour
100g butter
150g sugar
60ml treacle
2 teaspoons ginger

e.g. Can you rewrite it for 3 people? Or 5 people?

Fours

- Use exactly four 4s each time. You can add, subtract, multiply or divide them.
- Can you make each number from 1 to 100?
- Here are some ways of making the first two numbers. $1 = (4 + 4) / (4 + 4)$ $2 = 4 / 4 + 4 / 4$

Remainders

- Draw a 6 x 6 grid like this.
- Choose the 7, 8 or 9 times table.
- Take turns to roll a dice.
- Choose a number on the board, e.g. 59.
- Divide it by the tables number, e.g. 7.
- If the remainder for $59 \div 7$ is the same as the dice number, cover the board number with a counter or coin.
- The first to get four of their counters in a straight line wins!

82	33	60	11	73	22
65	12	74	28	93	51
37	94	57	13	66	38
19	67	76	41	75	85
86	29	68	58	20	46
50	69	30	78	59	10

Doubles and trebles

- Roll two dice.
- Multiply the two numbers to get your score.
- Roll one of the dice again.
- If it is an even number, double your score.
- If it is an odd number, treble your score.
- Keep a running total of your score.
- The first to get over 301 wins.

Journeys

Use the chart in the front of a road atlas that tells you the distance between places.

Find the nearest place to you. Ask your child to work out how long it would take to travel to some places in England.

York to Preston:	90 miles	1 hour 30 minutes
York to Dover:	280 miles	4 hours 40 minutes

If you travelled at an average of 60 miles per hour, i.e. 1 mile per minute.

Encourage your child to count in 60s to work out the answers mentally.

Card game

Use a pack of playing cards.

Take out the jacks, queens and kings.

Take turns to take a card and roll a dice.

Multiply the two numbers and write down the answer. Keep a running total.

The first to go over 301 wins!