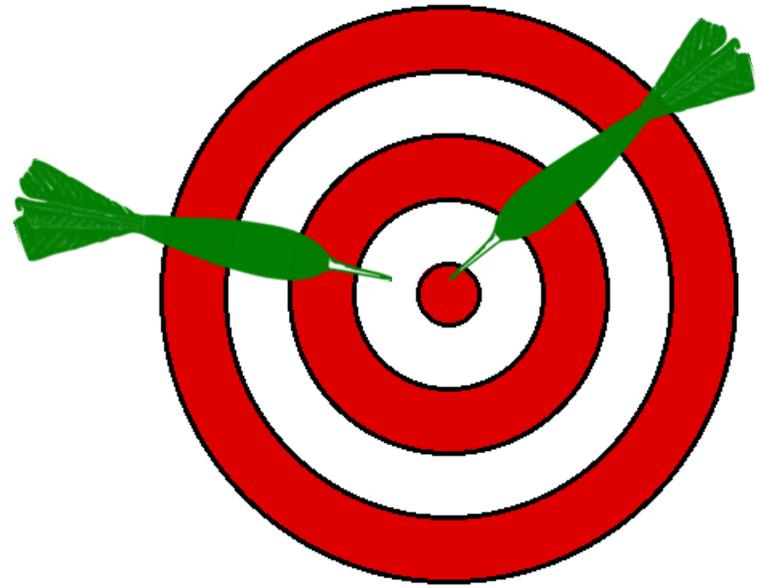


# Targets for pupils in **YEAR 6**



**A booklet for parents**

**Help your child with mathematics**

# Fun activities to do at home

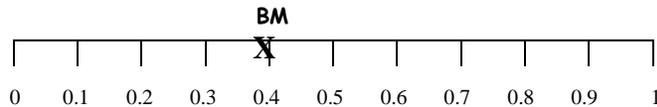
## Favourite food

- \* Ask your child 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 £20? 50?
- \* Repeat with his / her least favourite food. What is the difference in cost between the two?



## Three in a row

For this game you may need a calculator. Draw a line like this:



- \* Take it in turns to choose a fraction, say  $\frac{2}{5}$ . Use the calculator to convert it to a decimal if you need to (i.e.  $2 \div 5 = 0.4$ ) and mark your initials at this point on the line.
- \* The aim of the game is to get 3 crosses in a row without any of the other player's marks in between.
- \* Some fractions are harder to place than others, e.g. ninths.

## Flowers

- \* Take turns to think of a flower, animal or country.
- \* Use an alphabet code, A = 1, B = 2, C = 3... up to Z = 26.
- \* Find the numbers for the first and last letters of your flower, e.g. for a ROSE, R = 18, and E = 5.
- \* Multiply the two numbers together, e.g.  $18 \times 5 = 90$ .
- \* The person with the biggest answer scores a point.
- \* The winner is the first to get 5 points.

## Recipes

Find a recipe for 4 people and rewrite it for 8 people, e.g.

- |                   |                    |
|-------------------|--------------------|
| 4 people          | 8 people           |
| 125g flour        | 250g flour         |
| 50g butter        | 100g butter        |
| 75g sugar         | 150g sugar         |
| 30ml treacle      | 60ml treacle       |
| 1 teaspoon ginger | 2 teaspoons ginger |

Can you rewrite it for 3 people? Or 5 people?



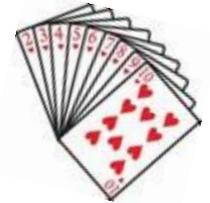
## Sale of the century

- \* 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.

## Card game

Use a pack of playing cards without the jacks, queens and kings.

- \* Take turns to take a card and roll a dice.
- \* Multiply the two numbers.
- \* Write down the answer. Keep a running total.
- \* The first to go over 301 wins!



## 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.  
 $1 = (4 + 4) \div (4 + 4)$        $2 = (4 \div 4) + (4 \div 4)$

## Remainders

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

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, you can cover the board number with a counter or coin.
- \* The first to get four of their counters in a straight line wins!



## Journeys

Use the chart in 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 if you travelled at an average of 60 miles per hour, i.e. 1 mile per minute e.g. York to Preston: 90 miles – 1 hour 30minutes  
York to Dover: 280 miles - 4 hours 40 minutes.
- Encourage your child to count in 60s to work out the answers mentally.
- Change the average speed to increase the complexity of the problem.