

# Maths Homework



**Set: Wednesday 24th January Due in: Monday 29th January**

## **Mrs Guy's group**

**This week we have been revisiting multiplication and division and deciding on the most efficient method to solve problems.**

To support our learning this week, we would like the children to complete the activities overleaf.

Our rock star times tables focus for next week will be the 6, 7 and 9 times tables.

Parent feedback

## Long Multiplication

To achieve 100+ you need to:  
solve complex problems using the written method of long multiplication.

There are 144 glitter pens in a box.

A shop orders 28 boxes.

The shop sells all the glitter pens at 75 pence each.

How much money does the shop take on glitter pens? £

Fill in the missing numbers in this calculation.

$$\begin{array}{r} 63 \\ \times \quad 8 \\ \hline 3704 \\ 32410 \\ \hline 36114 \end{array}$$

A map uses the scale 1 cm:175 km.

A route on the map is 36 cm.

What is the real distance of the route on the map? km

A bottle holds 635 ml of water.

Asha arranges bottles in rows of nine.

She makes six rows.

How many millilitres of water can all the bottles hold in total?

ml

$$\begin{array}{r} 27 \\ \times 15 \\ \hline 133 \\ 270 \\ \hline 405 \end{array}$$

Jack uses three of these cards for his calculation.

$$\begin{array}{r} 16 \\ \times 24 \\ \hline 64 \\ 320 \\ \hline 384 \end{array}$$

The product is between 11,000 and 12,000.

Which three cards does he use?

Remember to include the placeholder 0 when multiplying by the tens digit.

## Long Division

To achieve 100+ you need to:  
use long division to solve problems and interpret remainders in context  
use written division methods where the answer has up to two decimal places.

4,328 mugs are packed into boxes of 14

How many full boxes are there? (1 mark)

The area of a rectangle is 1,976 cm<sup>2</sup>.

The length of the shorter side is 16 cm.

What is the length of the longer side? cm (1 mark)

A plane travels a distance of 7,644 miles in 13 hours.

On average, how many miles does it travel each hour? miles (1 mark)

Prize money of £6,490 is shared equally between 15 winners.

a) How much money will they get each? £ (1 mark)

b) How much money will be left over? £ (1 mark)

Circle the numbers that represent the remainder after the division  $2,408 \div 12$  (1 mark)

$$\frac{1}{2} \quad \frac{2}{3} \quad 8 \quad 9 \quad \frac{3}{4}$$

A company wants to find the average cost of electricity per month over a two-year period.

In total, the company spent £9,564 (1 mark)

What is the average cost of electricity per month? £

Always think carefully about the context of division problems when deciding on your final answer: if there is a remainder you may need to write this as a whole number, a fraction or a decimal. Remember, the answer to the calculation may not always be the final answer to the word problem.