# Maths: Monday

Today you will be using your skills and knowledge of long multiplication. Do you remember the steps needed to successfully complete a long multiplication? Let's look at the calculation  $415 \times 13$ 



# Maths: Monday

## Drills

Using the 3 step to success approach, solve the calculations below.

a)	38 x 45	d)	18 x 25	g)	36 x 49
b)	54 x 21	e)	24 x 14	h)	86 x 76
c)	67 x 39	f)	17 x 72	i)	63 x 33

## Tasks

### Challenge 1:

<sup>1.</sup> 868 × 62	<sup>2.</sup> 995 × 55	<sup>3.</sup> 329 × 17
4. 749	<sup>5.</sup> 188	<sup>6.</sup> 671
<u>× 11</u>	<u>× 31</u>	<u>× 51</u>

### Challenge 2:

### Solve the following word problems:

- 1. It takes 78 hours for a satellite to go around the Earth. How many hours will it take for it to orbit the Earth 989 times?
- 2. A machine makes 16 dice a minute. A working day is 264 mins. How many dice were made in that time?
- 3. It takes 18 minutes to make a toy car. How many minutes will it take to make 205 cars?
- 4. A wholesaler sells apples for 96p each. A grocer buys 1907 apples. How much will they cost?

### Challenge 3:

Laura thinks that a 4 should be placed in the empty box. **Do you agree** ?



# Maths: Tuesday

Today you will be using your skills and knowledge of division. You will divide numbers using the short division method. Some calculations will divide exactly and some will have remainders.



When a number divides exactly the divisor goes into the dividend an exact number of times, with nothing left over.



When a number does not divide exactly the divisor doesn't goes into the dividend an exact number of times. Therefore the number left over is your remainder.

## Let's Practise

- 1. 465 ÷ 5 4. 85 ÷ 4
- 2. 664 ÷ 8 5. 165 ÷ 4
- 3. **2374** ÷ 2 6. **106** ÷ 8

Use your division skills to solve problems, like the one below; but remember to identify what exactly is needed and understand the reason for you answer.

Reasoning & Problem Solving

194 pupils are going on a school trip One adult is needed for every 9 pupils. How many adults are needed?

2. Your answer to 194 ÷ 9 is 21 remainder 5. But you can't have a remainder (or part) of an adult! What can you do? **1.** The first thing to do here is to identify the operation needed. We are going to divide the total number of pupils by 9 to find the number of adults required.

**3.** If you have 21 adults, you still have 5 children left over, so you must have an extra adult and round up to the next whole number. Your answer to the problem is 22 adults.





Try to complete the divisions below in 10 minutes

2 )808	5 )4780	3 )2694
3 )2943	6 )1386	7 )2758

## Tasks

#### Challenge 1:

Solve the following calculations using short division.

1.	367 ÷ 7	2. 189 ÷ 9	3. 157 ÷ 3	4. 458 ÷ 5	5. 723 ÷ 9
6.	697 ÷ 3	7. 631 ÷ 4	8. 275 ÷ 4	9. 747 ÷ 8	10. 635 ÷ 9

#### Challenge 2:

Which of the following division calculations will have a remainder? Explain your thinking.

8934 ÷ 3 6712 ÷ 2 7913 ÷ 5

#### Challenge 3:

- 1. A café made 382 sandwiches. They were packed into boxes, each containing 6 sandwiches. How many *<u>full</u>* boxes could be made?
- Jerry, Anita and Asha won £6,275 playing Bingo and shared their winnings equally between them.



How much did they each get to the nearest pound?



# Maths: Wednesday

Today you will be using your skills and knowledge of both multiplication and division to problem solve and answer reasoning questions.



## Let's Practise

We can solve problems using real life scenarios.. Using Money

- Mia went to the gift shop and bought 29 presents for everyone in her class. Each gift cost £10.25. How much did she spend?
- You know that 1 gift costs £10.25, as she needs 29 gifts you multiply £10.25 x 29 to find the *total cost* of the gifts. The easiest way to do this is to multiply £29 x 10 =£290, then multiply 25p x 29 =725p. Convert the pence into pounds (100p in £1, so 725 ÷ 100 = £7.25). Then to get your final answer, add the two together: £290 + £7.25 = £297.75.

### **Using Measurements**

- A bedroom floor measures 12m x 15m. What is the area of the bedroom?
- Can you work out the answer using RUCSAC? Remember to express your answer in metres.

# Maths: Wednesday

## Let's Practise

### **Using Division**

Padma has 351 monster cards. She shares them out equally to 4 friends. How many cards does each friend have and how many are left over?

• Can you answer solve this problem using RUCSAC?

Tasks

Challenge 1:

Ranjit is collecting football stickers.

His album has 65 pages and each page holds 24 stickers.



When his album is filled, how many stickers will he have?

#### Challenge 2:

Use RUCSAC to solve the following word problems:

- 1. Lilly wants to share 1645ml of lemonade out equally between 4 glasses. How much should she put in each glass?
- 2. A building has 90 floors with 20 windows on each floor.
- (a) How many windows does the building have in total?
- (b) Six of the windows on every floor have blinds. How many windows have blinds out of the whole building?
- 3. Marina has 104 hens. One month, each hen lays 18 eggs.
- (a) How many eggs did the hens lay in total?
- (b) Marina can fit 6 eggs in a box. If marina has 1666 eggs, how many boxes can she fill with eggs?

Challenge 3:

Use the digit cards below to complete the challenges.



# Maths: Thursday

Today you will be completing general arithmetic tasks. There will be 3 levels of challenge, you can complete one level, or move up the levels in turn. If you find one challenge too easy, just move up to the next one!

<u>Challenge 1:</u>	Challenge 2:	Challenge 3:		Extension:			
a) 826 = 800 + ? + 6	a) 91 ÷ 7 =	a) 0.9 ÷ 100 =	1. Here are	three symbols.			
b) ? + 5 = 341	b) 1,210 ÷ 11 =	b) 836 x 7 =		<	>	=	
c) 120 ÷ 120 =	c) 4912 - 824 =	c) 3468 x 62 =	Write one	statements correct.			
d) 231 x 0 =	d) 25.34 x 10 =	d) 5/6 x 540 =		7	7 0.07		
e) 39 + 673 =	e) 56. 38 + 24.7 =	e) -4 + 11 - 12 =		10			
f) 7064 -502 =	f) 30 x 40 =	f) 5,700,010 = 5,000,000 + ? + 10		23 1000 0.23		00	
g) 345 – 60 =	g) 122,456 – 11,999 =	g) 7- 20 + 5 =				1.23	
h) 4912 - 824 =	h) 0.9 ÷ 10 =	h) 700 x 900 =					
i) 123 x 2 =	i) 1.28 x 100 =	i) 8 – 3 - 12 = j) 1100 x 600 =		te the table.			
j) 5 x 4 x 7 =	j) 0.4 = ? ÷ 100					Round 39 476	
k) 7624 - 931 - 87 =	k) 2195 x 3 =	k) 0.7 ÷ 100 =		to the nearest 10	000	Round 00,470	
I) 95 ÷ 5 =	I) 3/4 = 12/ ?	I) ? ÷ 1000 = 4.6		to the nearest 1.0	000		
m) 89,994 + 7,643 =	m) 3 cubed – 3 squared =	m) 0.031 x 1000 =		to the hearest 1,0	00		
n) 3 squared + 10 =	n) 0.006 x 100 =	n) 6 squared ÷ the first prime numbe	er =	to the nearest 100			
o) $\frac{1}{6}$ of 24 =	o) 499,999 + 1,000 + 100 =	o) $\frac{5}{8}$ of 2400 =					