Maths

Activity 1 – Based on what we have learnt over the past few weeks, complete the questions below. If you are finding it tricky, have a look back at the videos.

Activity 2 – Complete the questions on the four operations. Try to use the methods we have learnt throughout this year.

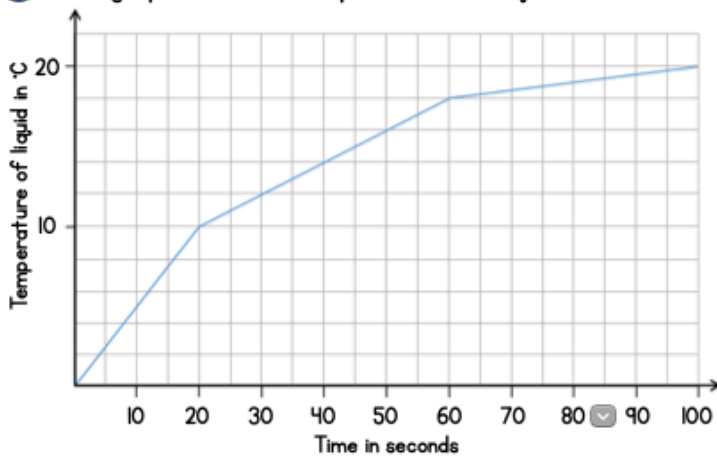Maths Skills Practise:
Daily Challenge:

JULY MATHS MASTERS

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Have fun doing a Maths question a day!	1 If 3x = 255 what is the value of x? How did you work out the answer?	2 Partition 1345 in 3 different ways.	3 Put these numbers in ascending order: 1453, 3541, 1454, 1353, 3514.	4 What's missing in this sequence: 3, 7, 15, 31, ___. How do you know?	5 If y = 0.7, what is the value of x in '5y = x?
6 What is 2020 in Roman Numerals?	7 What is the product of 1, 50 and 7? What does product mean?	8 What are the properties of a square based pyramid? Can you draw one?	9 Two thirds of a number is 102, what was the number?	10 What is 7,489 rounded to the nearest 10? Nearest 100?	11 Calculate 5 x 18 - 6.	12 Which number is smaller: 45731 or 45137? Describe how you know.
13 19 + 6 x 5 = 125. Is this right? Why?	14 Describe the angles in a scalene and isosceles triangle.	15 What is 9 x 50? What other calculations give you the same answer?	16 What is 5.03 + 9 + 0.56?	17 What time is 13:15 in words? Can you draw it on a clock face?	18 Is 0.5kg the same as 50g? How do you know?	19 List all the square numbers less than 100.
20 What is four and a third subtract three quarters?	21 Jake says, "The area of rectangles is always less than their perimeters." Do you agree? Why?	22 How many ml in 6.04 litres?	23 Which fraction is smaller: 1/3 or 9/12? How do you know?	24 Can you draw a regular and an irregular heptagon?	25 What is (4 x 7) – (3 x 2)?	26 What number is represented here: MMDLI?
27 What is the largest amount of money you can have with only 3 coins?	28 What is 765,551 rounded to the nearest 1000?	29 How does 34 x 10 help you calculate 3.4 x 10? What else can you work out?	30 What is half 964? Can you work it out 2 ways?	31 **TRICKY QUESTION:** How many hours in the month of July?	**Challenge yourself to talk to the people at home and show off what you know!**	

Reasoning & Problem Solving
Try any of the challenges on this website:
http://www.iseemaths.com/lessons56/

1 The graph shows the temperature of a liquid as it is heated.

How long does it take the liquid to reach 10°C?

_____ seconds

What is the temperature of the liquid after it is heated for 50 seconds?

_____ °C

How many degrees has the temperature increased by between 40 seconds and 80 seconds?

_____ °C

Another liquid is heated for 100 seconds.
- The temperature of the liquid at the start was 5°C
- After 40 seconds the temperature is 10°C
- It takes the liquid 50 seconds to increase by another 5°C
- After 100 seconds the temperature is 20°C

Draw a line to show this information on the graph.

2 The table shows the distance (in km) between places in the UK.

	Bath	Dover	Ely	Leeds	Perth
Bath	–	307	260	350	690
Dover	307	–	220	270	832
Ely	260	220	–	240	640
Leeds	350	270	240	–	430
Perth	690	832	640	430	–

What is the distance between Ely and Leeds?

_____ km

Which place in the table is 690 km from Bath?

_____

On Monday Mike drives from Dover to Leeds.
On Tuesday he drives from Leeds to Perth.
How many kilometres does he drive altogether?

_____ km

3 The table shows the start times for films at a cinema.

Bubble Mania	Mission Boy	Magic Island	Wand King
12:10	11:30	12:30	12:10
13:40	12:45	14:00	13:20
15:10	14:00	15:30	14:40
16:40	15:15	17:30	16:00

Which film starts in the morning?

_____

Which film starts at 5:30pm?

_____

Jack arrives at the cinema at 2:20pm.
He wants to watch Wand King.
How long does he have to wait?

_____ minutes

Bubble Mania lasts 100 minutes.
What time does the 15:10 film finish?

_____

4 The table shows the information about 130 sandwiches that were sold in a shop.

	Brown bread	White bread	Total
Egg	13	26	39
Tuna		18	44
Cheese	22		
Total		69	130

How many more egg sandwiches were sold on white bread than brown?

_____

How many tuna sandwiches on brown bread were sold?

_____

Complete the missing values in the table.

Activity 2

Amir's car costs £1,749

Whitney's car costs £2,300

What is the difference between the cost of the two cars?

£ _____

Complete the missing digits.

	8	9	[ ]	6	2
−		1	3	4	9
	8	7	7	[ ]	3

Find the missing sum.

△ + ◯ = 1,200

△ + ◯ + ◯ = 1,900

◯ + △ + △ = _____

Write one number less than 50 in each box.

	Multiple of 6	Not a multiple of 6
Square number		
Not a square number		

Here are four cards.

| ÷ 10 | × 10 | × 100 | ÷ 100 |

Use the cards to complete the calculations.

$$561{,}000 \boxed{} = 5{,}610$$

$$5{,}610 \boxed{} = 561{,}000$$

$$561{,}000 \boxed{} = 56{,}100$$

$$5{,}610 \boxed{} = 56{,}100$$

Write a digit in each box to complete the number sentence.

$$\boxed{} - 7 = \boxed{}$$

2-digit prime number   1-digit square number