Maths Planning and Ideas

Week Commencing: 1st June 2020

Year Group: 2

Note to parents:

This week's planning is based around a video of a teacher delivering a year 2 skills lesson. This has been delivered by one of the Maths Hub leads in Durham. It is covering some of the core skills that children need to be able to understand and use in order to complete mental calculations more quickly.

I have split the video across three days and provided resources sheets to allow pupils to practise the skills they have been taught in the lesson.
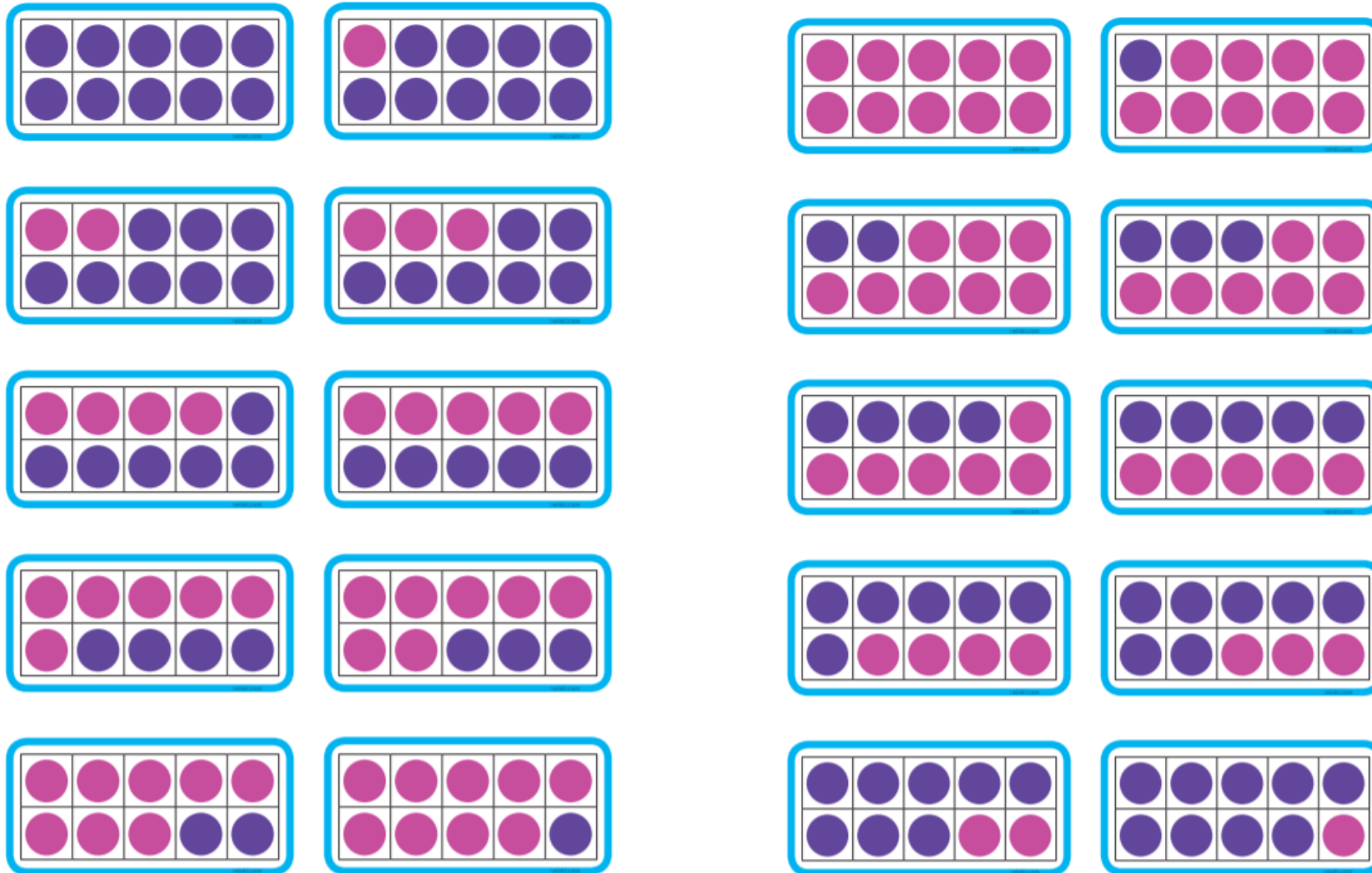
As always, these sheets are provided to try and support the needs of all pupils, as far as we can. Please remember that if you have any questions or concerns, you can email me at **oxcloseyear2@durhamlearning.net** *Mrs Phillips*

	Monday	**Tuesday**	**Wednesday**	**Thursday**	**Friday**
Area of Learning	LC: Can you find bonds to 10 and 20? Can you recognise doubles?	LC: Can you add three numbers?	LC: Can you recognise odd and even numbers?	LC: Can you add 9 by adding 10 and taking away 1?	Challenge Day
Activity	**Starter:** Times Table Rockstar *Battle of the Bands and Garage challenges have been set for Y2 children.* **Main**: • Today we are going to remind ourselves of our bonds to 10 and 20. • I have included two resource sheets for Monday. One shows bonds to 10 in ten frames. You could write the bonds underneath or just say them to an adult. • The other shows bonds to 10 and 20.	**Starter:** This week I have included some links to games for you to practise your bonds to 20 or your doubles. https://www.topmarks.co.uk/maths-games/hit-the-button http://www.snappymaths.com/addsub/make20/interactive/make20attack.htm http://www.snappymaths.com/multdiv/doubhalf12/interactive/doublesto10s/doublesto10s.htm **Main:** • Please follow the link below and watch the	**Starter:** Times Table Rockstar *Battle of the Bands and Garage challenges have been set for Y2 children.* **Main:** • Please follow the link below and watch the Year 2 Maths Skills video **from 7:50 to 20:37.** • https://carmelarchimedesmathshub.org.uk/videos-2/ • This include teaching points about recognising odd and even numbers and also includes an activity that children can try.	**Starter:** Choose some of the times table games to play, listed on Tuesday's plan OR Times Table Rockstars. **Main:** • Please follow the link below and watch the Year 2 Maths Skills video from **20:37 to the end.** • https://carmelarchimedesmathshub.org.uk/videos-2/ • This include teaching points about adding 9 mentally by adding 10	**Starter:** Times Table Rockstar *Battle of the Bands and Garage challenges have been set for Y2 children.* **Independent** Today I would like you to complete the Under the Sea challenge. This is using the skills you have practised over this week and the previous weeks, using doubles, adding 9 and adding and subtracting two-digit numbers.

• Remember that if you know your bonds to 10, you just add another 10 to make your bonds to 20. **Independent** Children to complete the two worksheets practising bonds to 20 and then complete the doubles worksheet. There is an extension sheet if children wish to have a go.	Year 2 Maths Skills video **up to 7:50.** • https://carmelarchimede smathshub.org.uk/videos -2/ • This include teaching points about adding three numbers and also includes an activity that children can try. **Independent:** Please complete the worksheet. You can write on paper if you do not want to print out the sheet.	**Independent:** Please complete the worksheet. You can write your answers on paper if you do not want to print out the sheet.	and subtracting 1 and also includes an activity that children can try. • I have included a 100square in the resources as this might be helpful for some children to refer to. **Independent:** Please complete the worksheet. You can write your answers on paper if you do not want to print out the sheet. The extension activity allows children to practise taking away 9 , by subtracting 10 and adding 1.	I hope you enjoy this.

Supporting Resources for Maths

Monday 18th May: - Bonds to 10

Rainbow to 10

0 1 2 3 4 5 **10** 5 6 7 8 9 10

0 + 10 = 10	10 + 0 = 10
1 + 9 = 10	9 + 1 = 10
2 + 8 = 10	8 + 2 = 10
3 + 7 = 10	7 + 3 = 10
4 + 6 = 10	6 + 4 = 10
5 + 5 = 10	5 + 5 = 10

Rainbow to 20

0 1 2 3 4 5 6 7 8 9 10 **20** 10 11 12 13 14 15 16 17 18 19 20

0 + 20 = 20	10 + 10 = 20
1 + 19 = 20	11 + 9 = 20
2 + 18 = 20	12 + 8 = 20
3 + 17 = 20	13 + 7 = 20
4 + 16 = 20	14 + 6 = 20
5 + 15 = 20	15 + 5 = 20
6 + 14 = 20	16 + 4 = 20
7 + 13 = 20	17 + 3 = 20
8 + 12 = 20	18 + 2 = 20
9 + 11 = 20	19 + 1 = 20

Monday – bonds to 20 activity

Number Bond Sticks

Can you complete these number sentences using number bonds to 20?
The first one has been done for you.

19 + 1 = 20

☐ + ☐ = 20

☐ + ☐ = 20

☐ + ☐ = 20

☐ + ☐ = 20

☐ + ☐ = 20

☐ + ☐ = 20

☐ + ☐ = 20

Number Bond Sticks

These number bond sticks are made from 18 white cubes and 2 grey cubes.

18 + 2 = 20

Can you use two colours to make your own sticks with number bonds of 20? Write the matching number sentence below each picture.

☐ + ☐ = 20

☐ + ☐ = 20

☐ + ☐ = 20

☐ + ☐ = 20

☐ + ☐ = 20

☐ + ☐ = 20

Number Bonds to 20

There are 15 currant buns on a baking tray. The baking tray can hold 20 buns. How many more buns can I put on the tray?

20	
15	?

Number Bonds to 20

I have 20 jelly beans. I eat 4. How many do I have left?

20	
4	?

Number Bonds to 20

I have 10 green marbles and 10 purple marbles. How many marbles do I have altogether?

?	
10	10

Number Bonds to 20

There are 20 sausages in a packet. I cook some of the sausages in a frying pan. There are 17 sausages left in the packet. How many sausages did I cook?

20	
?	17

Monday – doubles activity

Number Shape Doubles to 20

Cut and stick the number shapes into the boxes to double the amount.
Use the pictures to work out the answer. Then, write the answer in the box.

	Paste the matching number shape here.	Double 6 is	

	Paste the matching number shape here.	Double 7 is	

	Paste the matching number shape here.	Double 8 is	

	Paste the matching number shape here.	Double 9 is	

	Paste the matching number shape here.	Double 10 is	

Challenge:

Doubling Challenge Cards

Match the number to its double like this: 3 → 6

12   4   42   24

21   16   8

24   48   32

Doubling Challenge Cards

Match the number to its double like this: 3 → 6

2   46   36

9   14   4

18

23   28   18

Doubling Challenge Cards

Match the number to its double like this: 4 → 8

3   50   16

11   8

17   6

25   34   22

Doubling Challenge Cards

Match the number to its double like this: 4 → 8

1   44   56

6   15   2

22

28   12   30
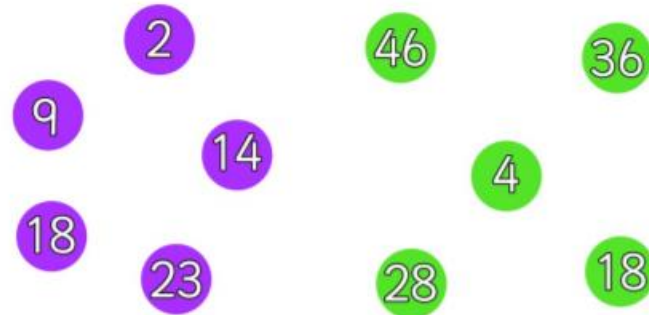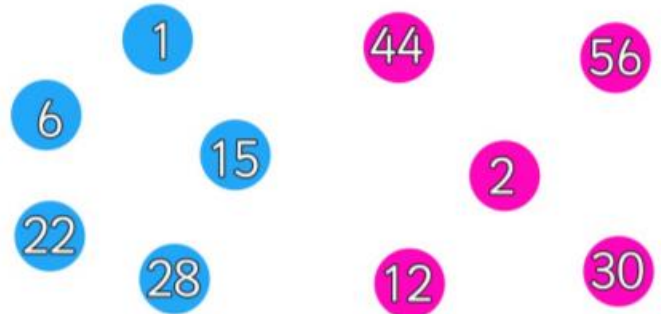
Use $<$, $>$ or $=$ to compare the number sentences.

$5 + 4 + 6$ ◯ $6 + 5 + 4$ $7 + 3 + 8$ ◯ $7 + 7 + 3$

$9 + 2 + 5$ ◯ $8 + 3 + 5$ $8 + 4 + 2$ ◯ $2 + 5 + 8$

Adding 3 Numbers Challenge

4	5	6	
3	5	7	
7	2	3	

8	9	0	
6	4	7	
4	6	9	

2	5	5	
3	5	7	
1	7	9	

2	8	9	
6	7	4	
4	2	6	

4	6	7	
8	2	9	
4	5	5	

3	6	8	
7	4	6	
4	4	2	

Use a timer.

How many totals can you complete in 5 minutes?
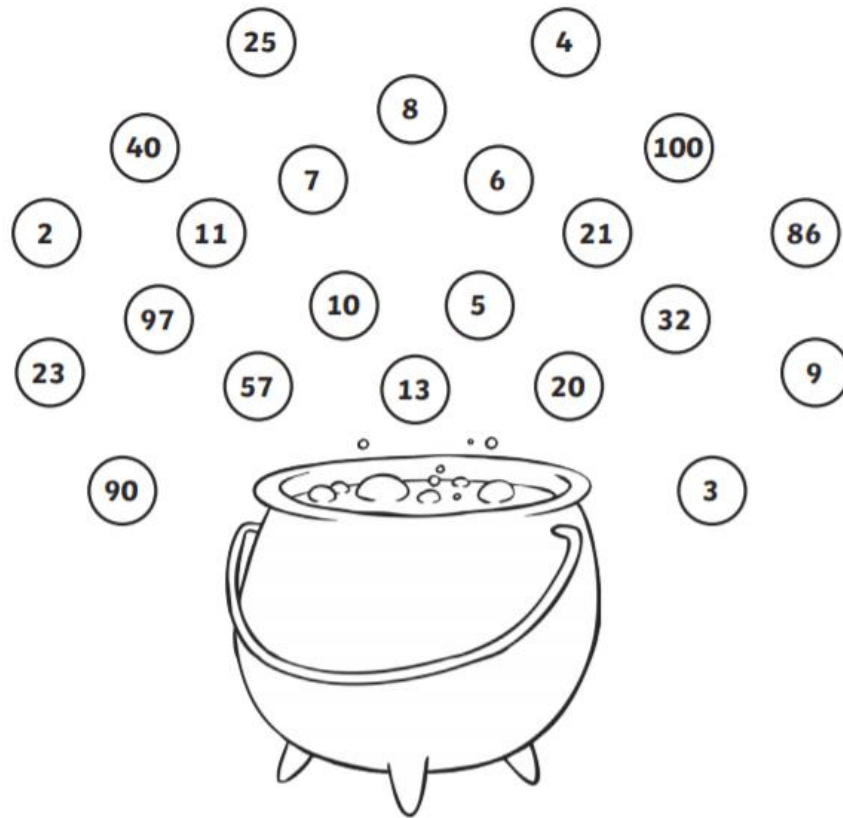
Remember to look for your number bonds to 10 and doubles that you know first.

Odd and Even

The witches have been making a maths potion. Can you help them to spot the odd and even numbers in the bubbles?

Colour all of the odd numbers in yellow and all of the even numbers in blue.

25 4 8 40 100 7 6 2 11 21 86 97 10 5 32 23 57 13 20 9 90 3

How do you know if a number is odd or even?

_____

Always, Sometimes, Never

$$odd + odd + odd = odd$$

Use one-digit numbers to test if this is true e.g.

$$3 + 5 + 7$$

Try this 3 times. What do you notice about the total?

Now try adding three even numbers. What do you think will happen? Are you correct?

100 Square

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Calculate

(1) 61 + 9 =   (2) 31 + 9 =

(3) 62 + 9 =   (4) 32 + 9 =

(5) 37 + 9 =   (6) 33 + 9 =

(7) 63 + 9 =   (8) 35 + 9 =   (9) 15 + 9 =

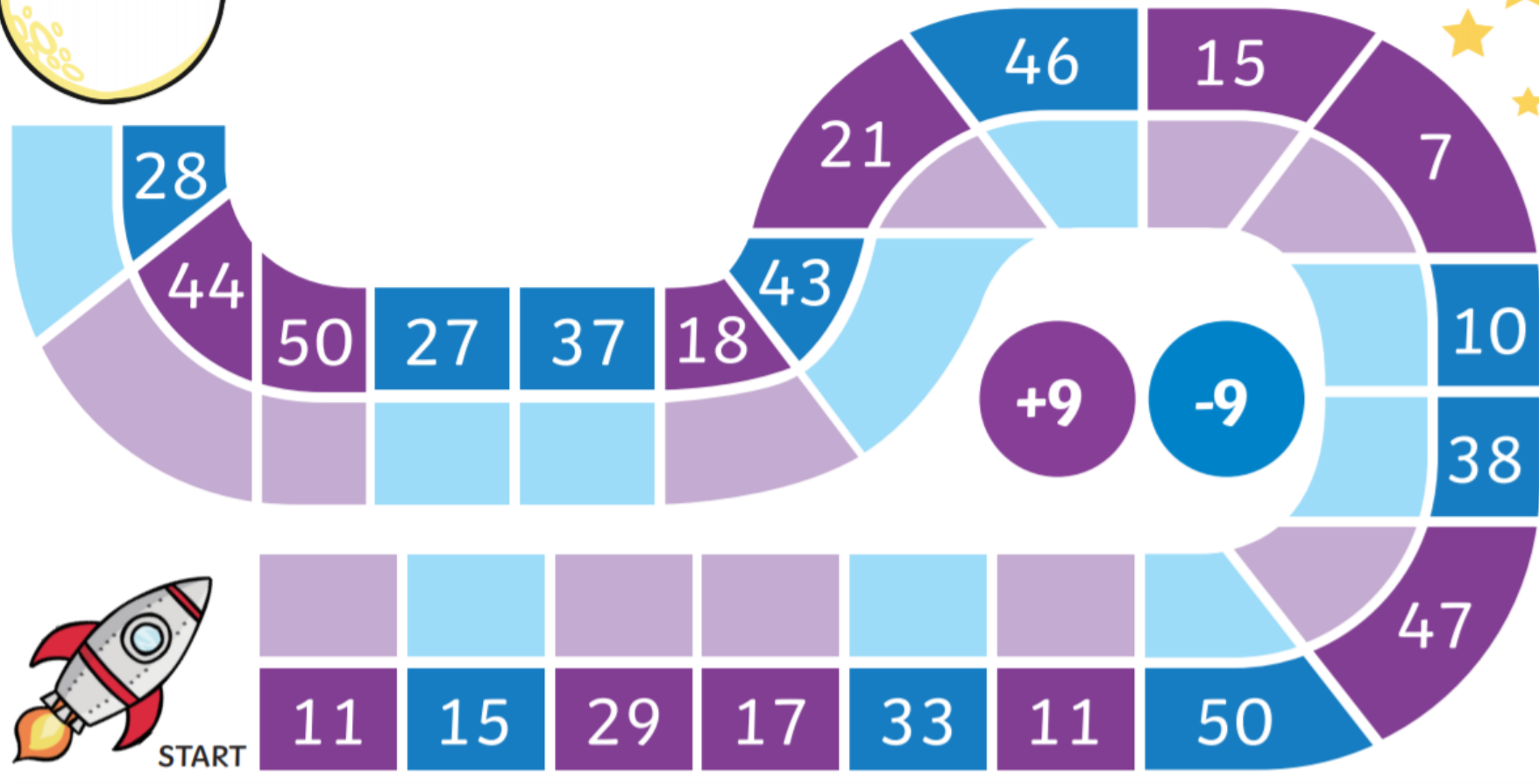(10) 41 + 9 =   (11) 23 + 9 =   (12) 71 + 9 =

Adding and Subtracting 9 Space Race

How fast can you add or subtract 9?
Add 9 to the numbers in purple. Subtract 9 from the numbers in blue.
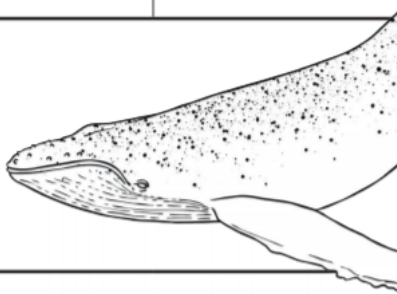Write your answers as you go and see how long it takes you to finish the race!

46 15 21 7

28 44 50 27 37 18 43 +9 -9 10 38

47

START 11 15 29 17 33 11 50

Use all the skills you have practised over the past weeks in maths to crack the code and find the names of the sea animals.

Crack the Codes under the Sea

a	b	c	d	e	f	g	h	i	j	k	l	m
1	2	3	4	5	6	7	8	9	10	11	12	13
n	o	p	q	r	s	t	u	v	w	x	y	z
14	15	16	17	18	19	20	21	22	23	24	25	26

20 – 5 = _____   20 – 17 = _____   10 + 10 = _____   10 + 5 = _____   8 + 8 = _____   30 – 9 = _____   25 – 6 = _____

10 + 9 = _____   4 + 4 = _____   30 – 29 = _____   11 + 7 = _____   25 – 14 = _____

30 – 7 = _____   100 – 92 = _____   45 – 44 = _____   7 + 5 = _____   65 – 60 = _____

2 + 2 = _____   35 – 20 = _____   23 – 11 = _____   29 – 13 = _____   3 + 5 = _____   12 – 3 = _____   9 + 5 = _____

89 – 70 = _____   50 – 42 = _____   8 + 10 = _____   39 – 30 = _____   6 + 7 = _____   11 + 5 = _____

6 + 13 = _____   27 – 10 = _____   14 + 7 = _____   2 + 7 = _____   28 – 24 = _____

Crack the Codes under the Sea **Answers**

20 – 5 = **15**	20 – 17 = **3**	10 + 10 = **20**	10 + 5 = **15**	8 + 8 = **16**	30 – 9 = **21**	25 – 6 = **19**
o	c	t	o	p	u	s

10 + 9 = **19**	4 + 4 = **8**	30 – 29 = **1**	11 + 7 = **18**	25 – 14 = **11**		
s	h	a	r	k		

30 – 7 = **23**	100 – 92 = **8**	45 – 44 = **1**	7 + 5 = **12**	65 – 60 = **5**		
w	h	a	l	e		

2 + 2 = **4**	35 – 20 = **15**	23 – 11 = **12**	29 – 13 = **16**	3 + 5 = **8**	12 – 3 = **9**	9 + 5 = **14**
d	o	l	p	h	i	n

89 – 70 = **19**	50 – 42 = **8**	8 + 10 = **18**	39 – 30 = **9**	6 + 7 = **13**	11 + 5 = **16**	
s	h	r	i	m	p	

6 + 13 = **19**	27 – 10 = **17**	14 + 7 = **21**	2 + 7 = **9**	28 – 24 = **4**		
s	q	u	i	d		

Extension activities:

4.

Number Facts

Look at these number sentences.

$$6 + 3 = 9 \qquad 60 + 30 = 90$$

What other number facts do you know related to this number sentence below?

$$5 + 5 = 10$$

Write a number sentence for a friend.
Can they give you any related number facts?
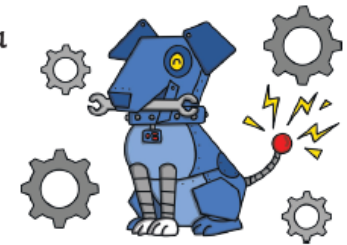Ask them to prove they are right.

5.

Number Bonds

Draw pictures or use equipment to model number bonds to 16.

Ask a friend to tell you what number bonds you have represented.

Can they represent them in a different way?

6.

Number Facts

Look at these number sentences.

$$8 - 2 = 4 \qquad 80 - 20 = 40$$

What other number facts do you know related to this number sentence below?

$$9 - 4 = 5$$

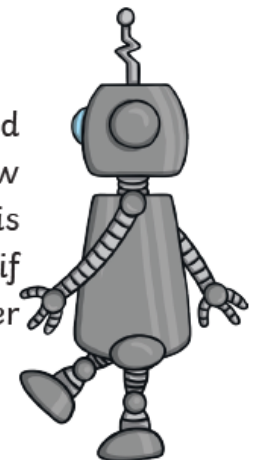What other number facts can a friend come up with? Compare how you found the number facts.

7.

All the Possibilities

$$2 + 5 = 7 \qquad 12 + 5 = 17$$

Can you see a pattern? What would the next number sentence be? How far can you continue with this sequence? What would happen if you added 10 to the second number instead?

Where can I complete further work?

Twinkl – Subscription service used by schools is offering a free premium service for teachers, parents and children to use whilst schools are closed. Enter the code **UKTWINKLHELPS** for access to worksheets, powerpoints and interactive games to support all areas of learning.

Classroom Secrets – Free Maths, Reading and Grammar home learning packs and interactive resources for all ages.

White Rose Maths – Free Maths home learning resources for all ages. Watch the videos and try the questions.

Primary Stars – Free Maths home learning packs for Year 1 and 2.

BBC Bitesize Primary – Free learning resources available for KS1 and KS2 across all subjects.

I See Maths – Free daily home maths lessons hosted by Gareth Metcalfe. Follow the link for videos, information and resources.

Top Marks – Free educational resources and games for English and Maths.

ICT Games – Free educational resources and games for English and Maths.