Warm-Up Challenge

Week 7 – Home Learning

Flashback 4

1) If $x = 15$, what is the value of $3x$?

2) 62% of the sweets in a bag a red.
What percentage of the sweets are not red?

3) Multiply 4.7 by 5

4) Add 2,999 to 18,346

White Rose Maths

Teaching Input:

Week 7 – Home Learning

Complete the following calculation:

2544 ÷ 12

Go onto the next slide to see the division process for this calculation.

Teaching Input:

Week 7 – Home Learning

$$
\begin{array}{r}
212 \\
12\overline{)2544} \\
-\,24 \\
\hline
\,14 \\
-\,12 \\
\hline
\,24 \\
\,24 \\
\hline
\,00
\end{array}
$$

Remember to list your multiples of 12

Let's start with the largest number.

Teaching Input:

Week 7 – Home Learning

Complete the following calculation:

7397 ÷ 13

Go onto the next slide to see the division process for this calculation.

Teaching Input:

Week 7 – Home Learning

$$
\begin{array}{r}
5\ 6\ 9 \\
13\overline{)\ 7\ 3\ 9\ 7} \\
-\ 6\ 5 \\
\hline
\quad 8 \\
-\ 7\ 8 \\
\hline
\quad 1\ 1 \\
\quad 1\ 1\ 7
\end{array}
$$

Remember to list your multiples of 13

Let's start by writing out the 13 times table up to the 13th number.

Teaching Input:

Week 7 – Home Learning

Now use your knowledge of multiples to help you solve these long division questions containing remainders:

2564 ÷ 22 =

		0	1	1	6	r12
2	2	2	5	6	4	
	−	2	2			
			3	6		
	−		2	2		
			1	4	4	
			1	3	2	
				1	2	

1178 ÷ 21 =

		0	0	5	6	r2
2	1	1	1	7	8	
	−	1	0	5		
			1	2	8	
	−		1	2	6	
					2	

Remember to list your multiples

Independent Activity: *Now grab a pen and paper and see how many questions you can answer*

1 Complete the number track with the multiples of 15

15									

Use the multiples of 15 to complete the divisions.

	15	7	6	0

	15	1	6	3

	15	9	4	6

	15	7	4	0

2

I am trying to complete this using long division, but it doesn't seem to help.

	0	0	
15	1	3	6

Look at Dexter's working.
What problem is he facing? Talk about it with a partner.

3 Work out the divisions.

a) 764 ÷ 14
b) 1,840 ÷ 18

4 A school has 380 pupils, 24 staff and 9 governors.
Everyone is invited to a special meal.
Each table seats 12 people.

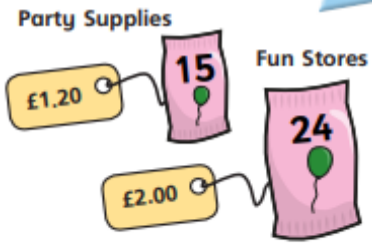
a) How many tables are needed?
b) How did you work this out? Did you use the same method as your partner?

5 Which of these calculation cards leave a remainder greater than 10?

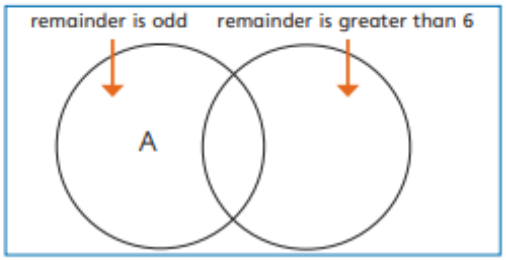
899 ÷ 30	899 ÷ 8	899 ÷ 11	899 ÷ 24	899 ÷ 99

6 Tommy needs to buy 650 balloons for a festival.

How much would it cost to buy the balloons from each shop?



7 Label the sorting diagram with the divisions.
The first one has been done for you.



A 901 ÷ 16
B 902 ÷ 16
C 910 ÷ 16
D 920 ÷ 16
E 901 ÷ 17
F 902 ÷ 17
G 910 ÷ 17
H 920 ÷ 17

8

1	2	3	4	5

Use each digit card once to complete the division in different ways.

□□□ ÷ □□

Experiment to find divisions that give:

a) the smallest possible remainder
b) the largest remainder
c) a remainder that is a multiple of 5

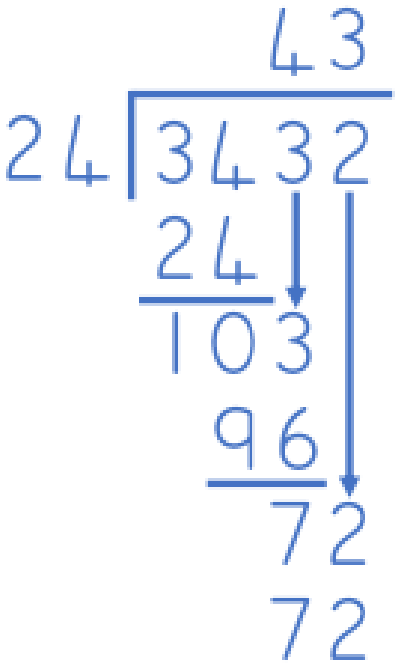
Talk about your answers with a partner.

Mastery Challenge: *Now lets see if we can really challenge that brain...*

Explain the mistakes

$3432 \div 24$

Mistake 1



Mistake 2