Long division (3)

1 Complete the number track with the multiples of 15

15									

Use the multiples of 15 to complete the divisions.

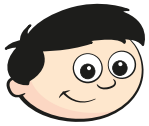
	15	7	6	0

	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	$^{1}3$	$^{13}6$

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?

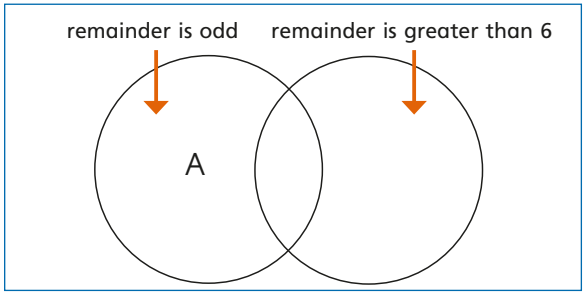
899 ÷ 30	899 ÷ 8	899 ÷ 11	899 ÷ 24	899 ÷ 99

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	C 910 ÷ 16	E 901 ÷ 17	G 910 ÷ 17
B 902 ÷ 16	D 920 ÷ 16	F 902 ÷ 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 greatest remainder

c) a remainder that is a multiple of 5

Talk about your answers with a partner.