White Rose Maths

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 Tick the calculation cards that leave a remainder greater than 10

| 899 ÷ 30 | 899 ÷ 8 | 899 ÷ 11 | 899 ÷ 24 | 899 ÷ 99 |
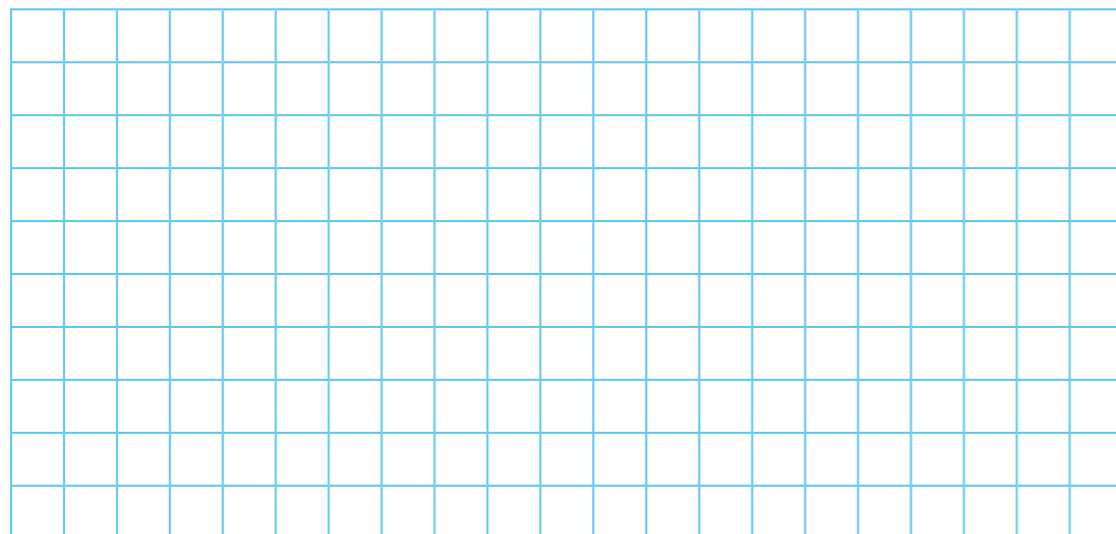
6 Tommy needs to buy 650 balloons for a festival.

Party Supplies
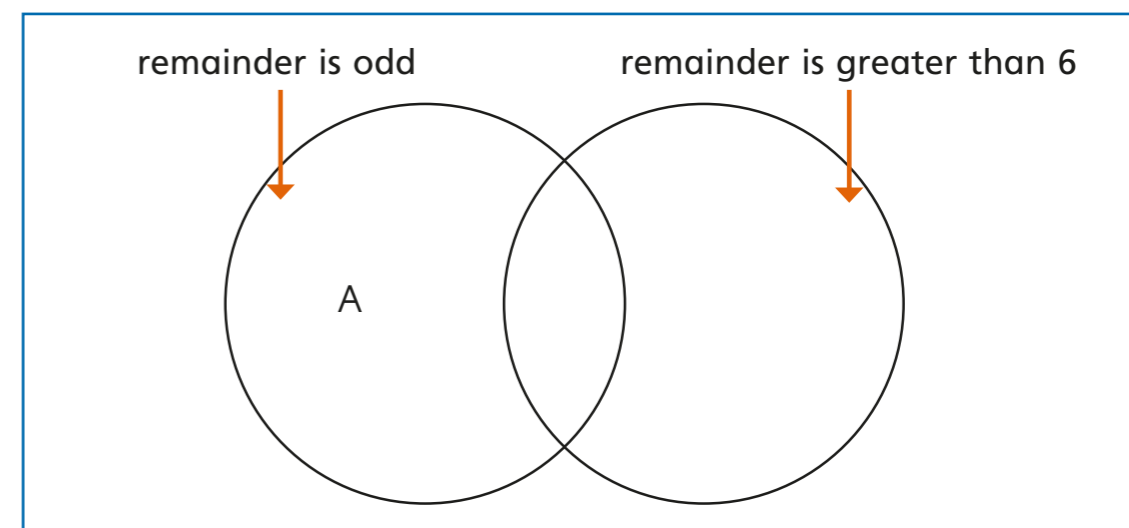
15
£1.20

Fun Stores

24
£2.00

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

Party Supplies: ☐   Fun Stores: ☐

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

remainder is odd   remainder is greater than 6

A

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.