To understand and find common factors

GET READY

White Rose Maths

1 x 6 = 6	1 x 7 = 7	1 x 8= 8	1 x 9 = 9
2 x 6 = 12	2 x 7 = 14	2 x 8 = 16	2 x 9 = 18
3 x 6 = 18	3 x 7 = 21	3 x 8 = 24	3 x 9 = 27
4 x 6 = 24	4 x 7 = 28	4 x 8 = 32	4 x 9 = 36
5 x 6 = 30	5 x 7 = 35	5 x 8 = 40	5 x 9 = 45
6 x 6 = 36	6 x 7 = 42	6 x 8 = 48	6 x 9 = 54
7 x 6 = 42	7 x 7 = 49	7 x 8 = 56	7 x 9 = 63
8 x 6 = 48	8 x 7 = 56	8 x 8 = 64	8 x 9 = 72
9 x 6 = 54	9 x 7 = 63	9 x 8 = 72	9 x 9 = 81
10 x 6 = 60	10 x 7 = 70	10 x 8 = 80	10 x 9 = 90
11 x 6 = 66	11 x 7 = 77	11 x 8 = 88	11 x 9 = 99
12 x 6 = 72	12 x 7 = 84	12 x 8 = 96	12 x 9 = 108

1) List the factors of 36

2) Which number is not a factor of 14?

1 4 7 14

3) What fraction of the multiples of 7 are odd?

Less than half Half More than half

4) 64 ____ 48 ____ 32

1) List the factors of 36

1, 2, 3, 4, 6, 9, 12, 18, 36

2) Which number is not a factor of 14?

1 | 4 | 7 | 14

3) What fraction of the multiples of 7 are odd?

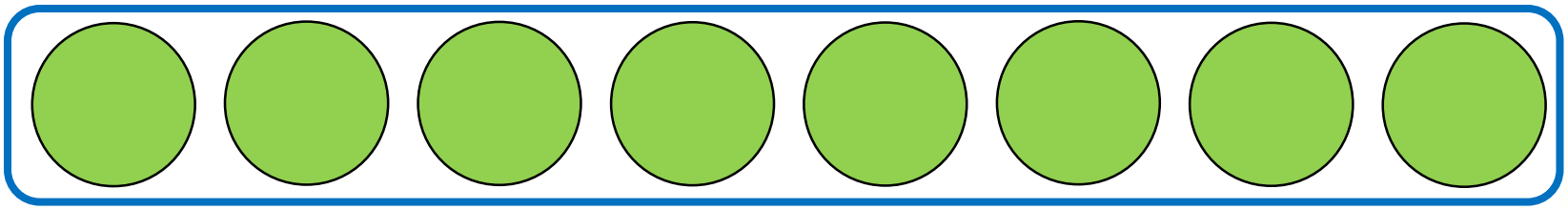
Less than half | Half | More than half

4) 64 | 56 | 48 | 40 | 32

LET'S LEARN

White Rose Maths

A common factor is a number that _____ exactly into two or more numbers.



1 row of 8 is equal to 8 **1 and 8 are factors of 8**

Have a think

2 rows of 4 are equal to 8 **2 and 4 are factors of 8**

The factors of 8 are: 1, 2, 4 and 8

Have a think

The factors of 12 are: 1, 2, 3, 4, 6 and 12

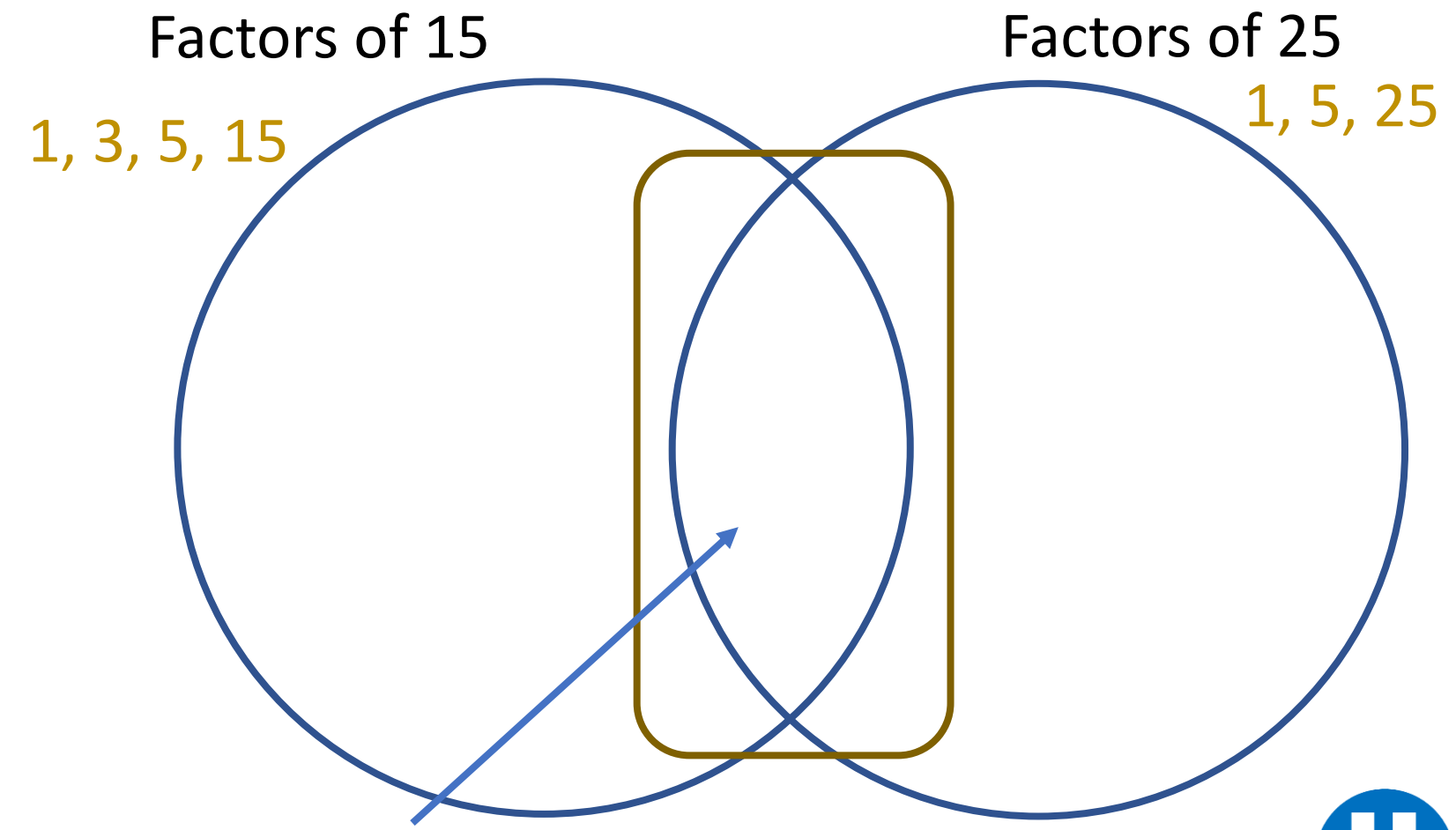
The factors of 8 are: 1, 2, 4 and 8

1, 2 and 4 are factors of 12 and 8

1, 2 and 4 are common factors of 12 and 8

Whitney and Dexter both have dark hair.

They have dark hair in common.


Factors of 15
1, 3, 5, 15
Factors of 25
1, 5, 25
Common factors of 15 and 25
1 2 3 5 15 25
Have a think

YOUR TURN

Have a go at questions
1 - 3 on the worksheet

White Rose Maths

What is the highest common factor of 27 and 90?

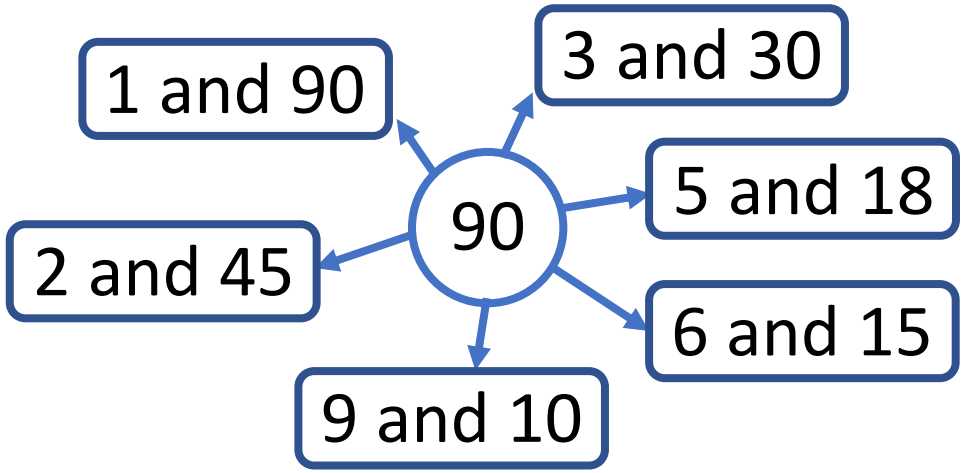
9

The factors of 27 are 1, 3, 9 and 27

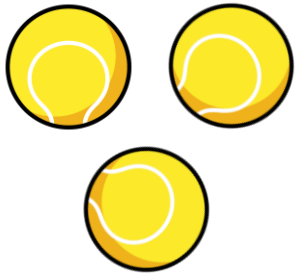
Have a think

The factors of 90 are

1, 2, 3, 5, 6, 9, 10, 15, 18, 30, 45 and 90



Rosie has 14 tennis balls.
Amir has 24 tennis balls.



Ball containers can hold 2, 4, 8 or 10 balls.

Each child wants to buy containers all of the same size and to have only full containers.

Have a think

1) Which container size could both Amir and Rosie use? _____

2) Which container size could neither Amir nor Rosie use? _____

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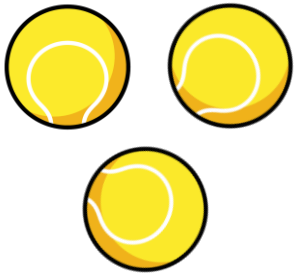
Amir has 24 tennis balls.



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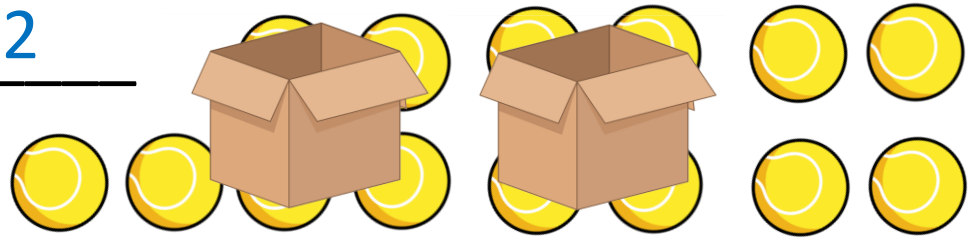
Each child wants to buy containers all of the same size and to have only full containers.

1) Which container size could both Amir and Rosie use? 2



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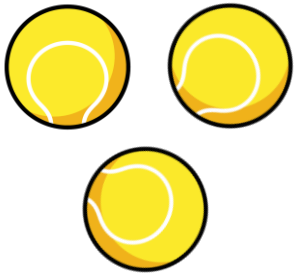
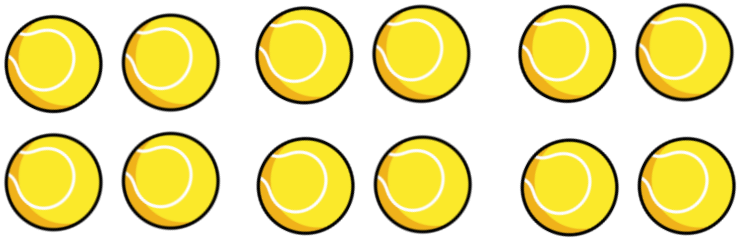
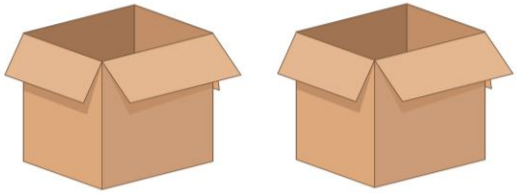


Ball containers can hold 2, 4, 8 or 10 balls.

Each child wants to buy containers all of the same size and to have only full containers.

2) Which container size could neither Amir nor Rosie use? 10





YOUR TURN

Have a go at questions 4 - 9 on the worksheet

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