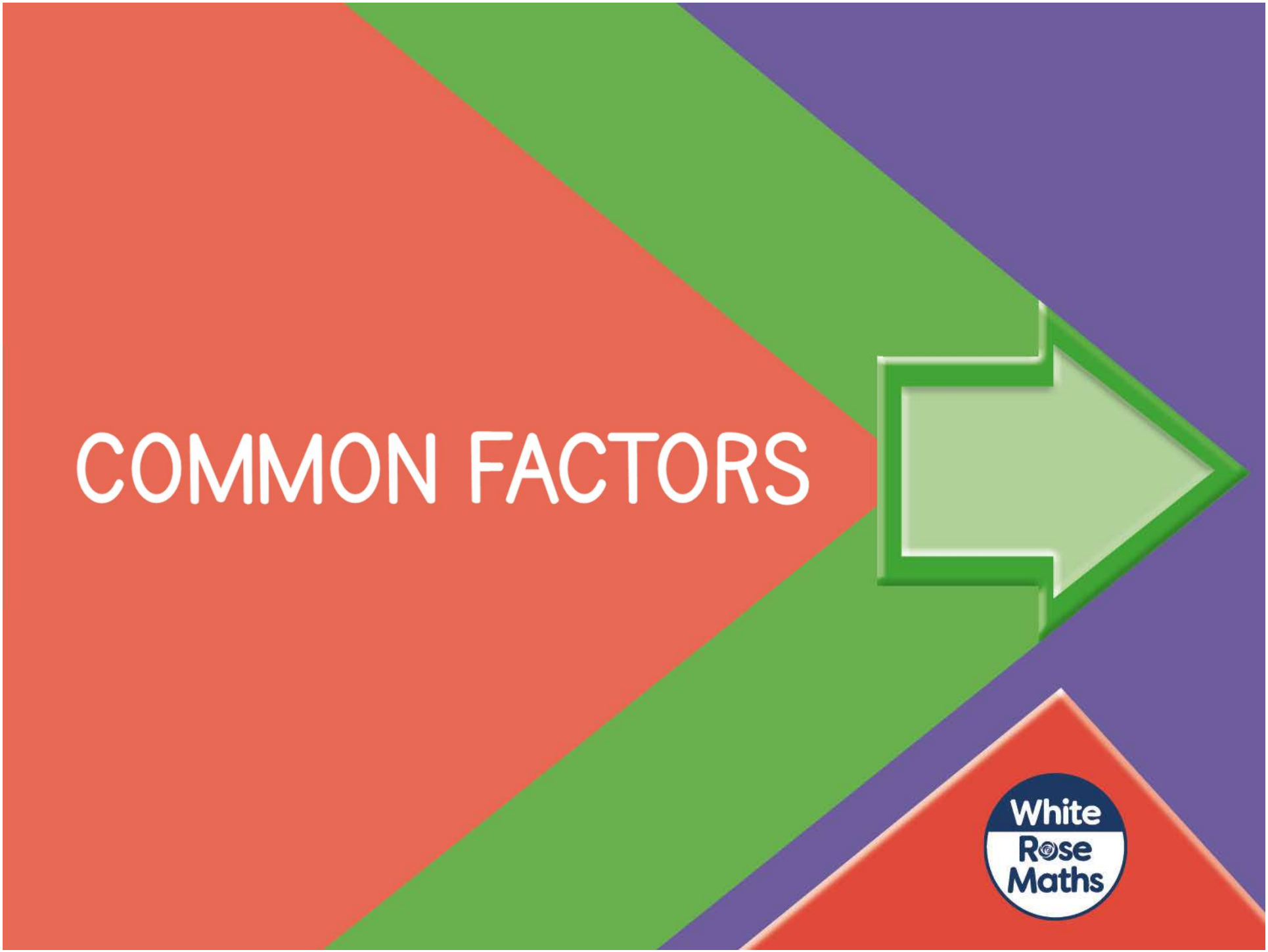
COMMON FACTORS



GET READY

White Rose Maths

1) ____ $\times$ 7 = 56

2) 9 $\times$ ____ = 108

3) Find all the factors of 24

4) Find all the factors of 11

1) 8 × 7 = 56

2) 9 × 12 = 108

3) Find all the factors of 24

1, 2, 3, 4, 6, 8, 12, 24

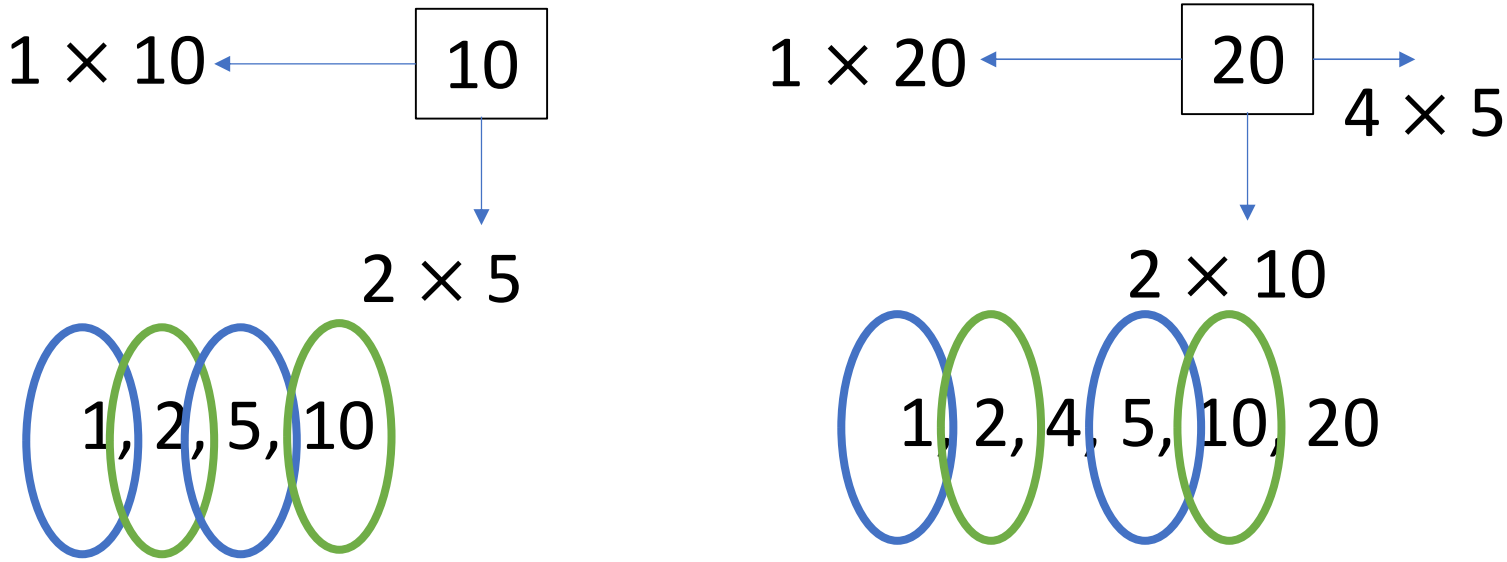
4) Find all the factors of 11

1, 11

LET'S LEARN

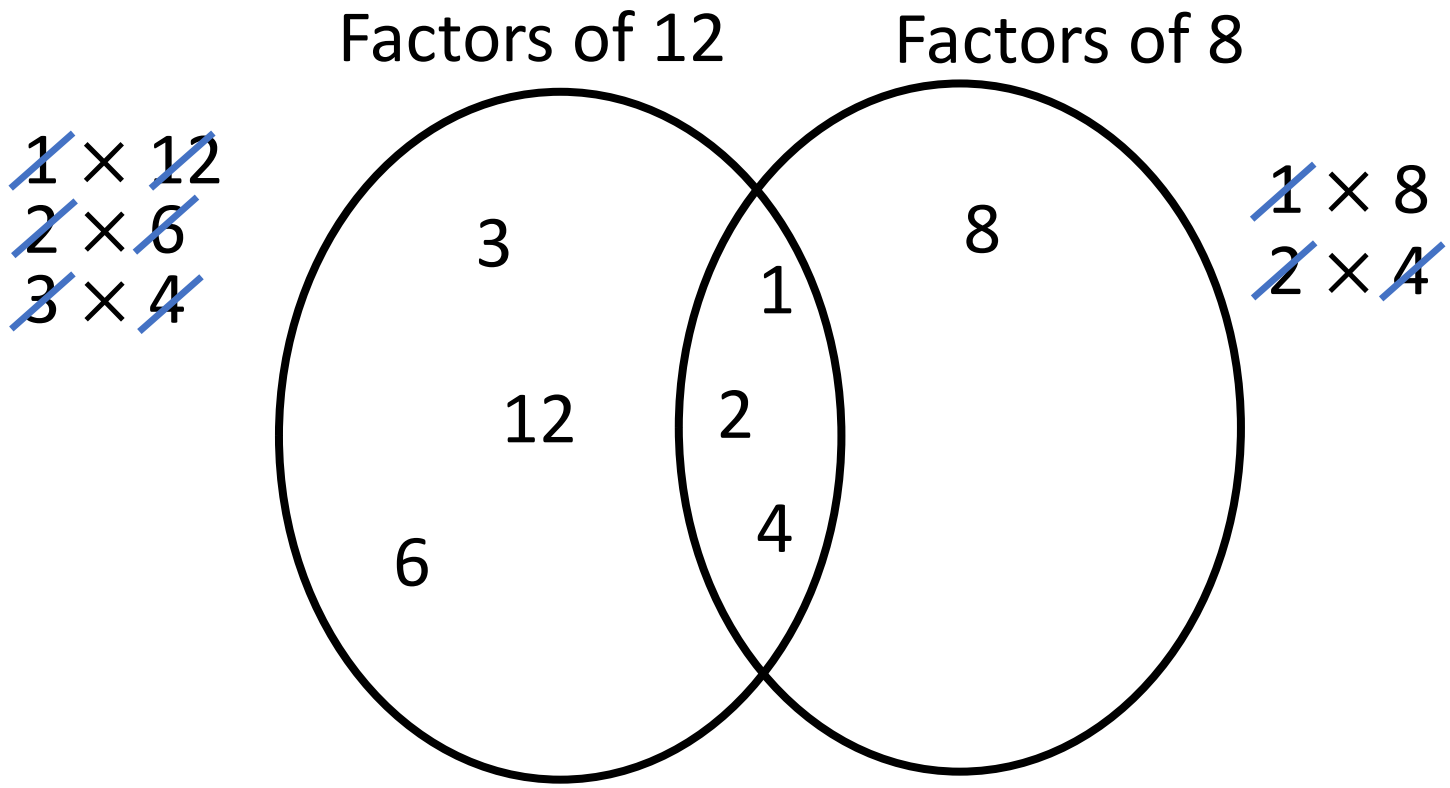
White Rose Maths

Find all the common factors of 10 and 20



Common factors: 1, 2, 5, 10

Complete the Venn diagram



Have a think

YOUR TURN

Have a go at questions
1 - 3 on the worksheet

White Rose Maths

Find a common factor of 80, 160 and 300 that is greater than 15 20

80	160	300
1 × 80 2 × 40 4 × 20 5 × 16 8 × 10	2 × 80 4 × 40 8 × 20 10 × 16	× 80 × 40 15 × 20 × 16

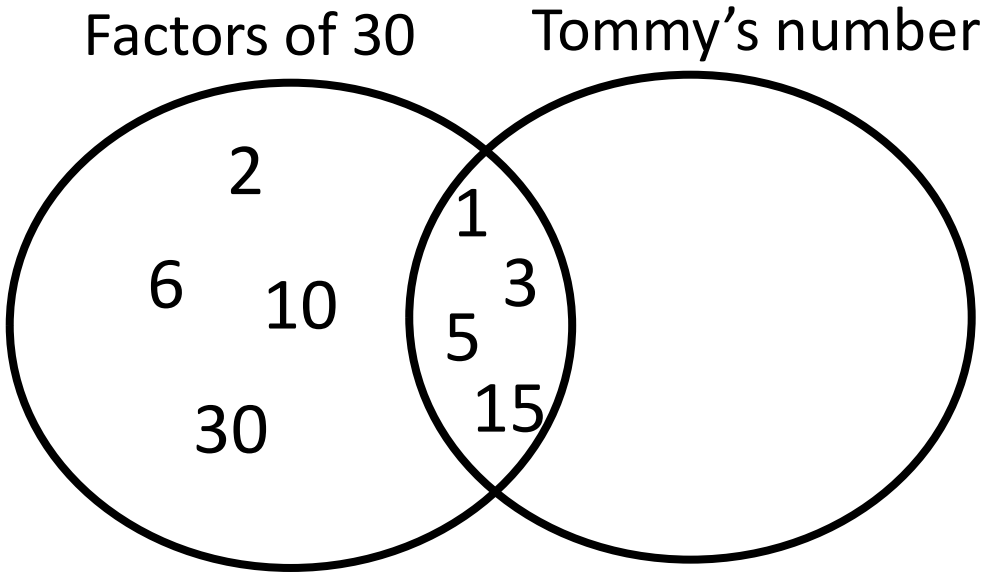
Have a think

Tommy

I'm thinking of a 2-digit number between 20 and 50

Whitney

My number is 30
The common factors of 30 and Tommy's number are 1, 3, 5 and 15



15
30
45
60

What is Tommy's number?

Can you use common factors to simplify this fraction?

$$\frac{18}{50} \xrightarrow{\div 2} \frac{9}{25}$$

Factors of 18: 1, 2, 3, 6, 9, 18

Factors of 50: 1, 2, 5, 10, 25, 50

Can you use common factors to simplify this fraction?

$$\frac{30}{90} \quad \begin{matrix} \div 30 \\ \curvearrowright \\ \curvearrowleft \\ \div 30 \end{matrix} \quad \frac{1}{3}$$

Factors of 30: 1, 2, 3, 5, 6, 10, 15, 30

Factors of 90: 1, 2, 3, 5, 6, 9, 15, 30, 45, 90

Have a think

YOUR TURN

Have a go at rest of the worksheet

White Rose Maths