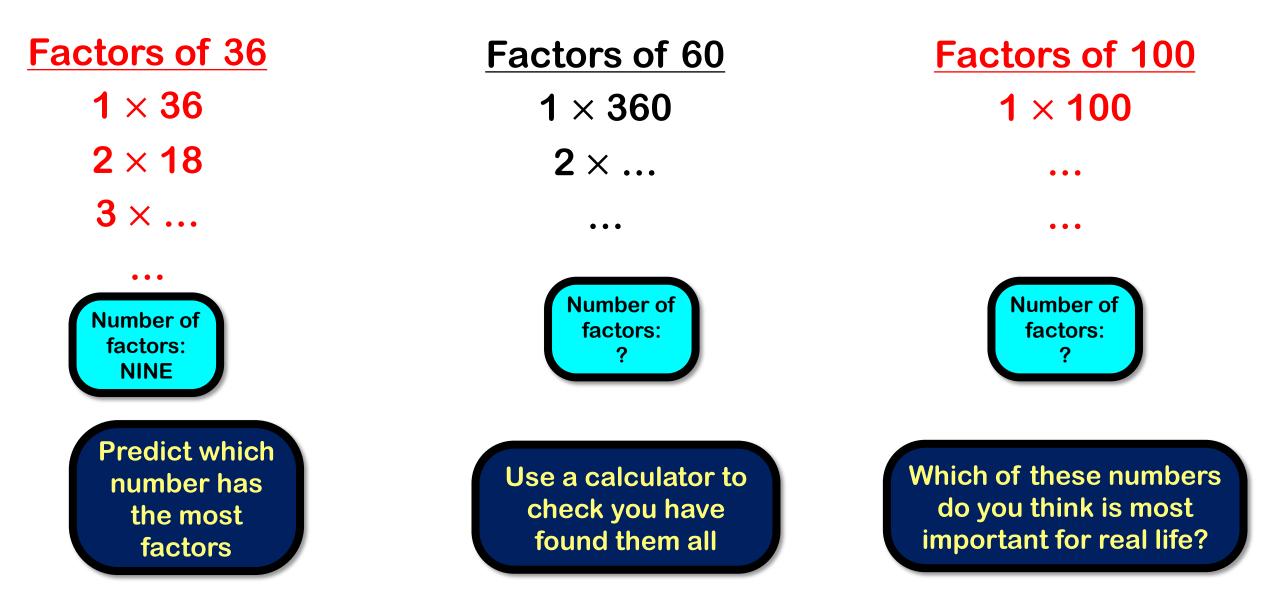
**CODE Maths Hub** 

# Year 6

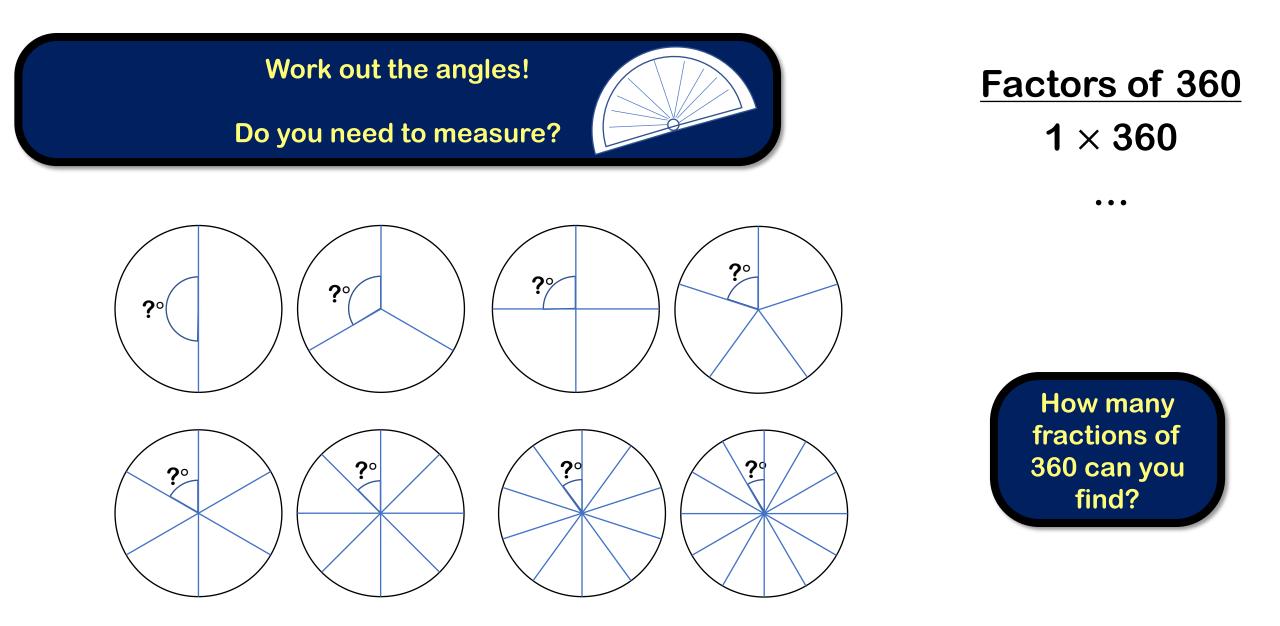
Number Awareness Week 9 Numbers with many factors

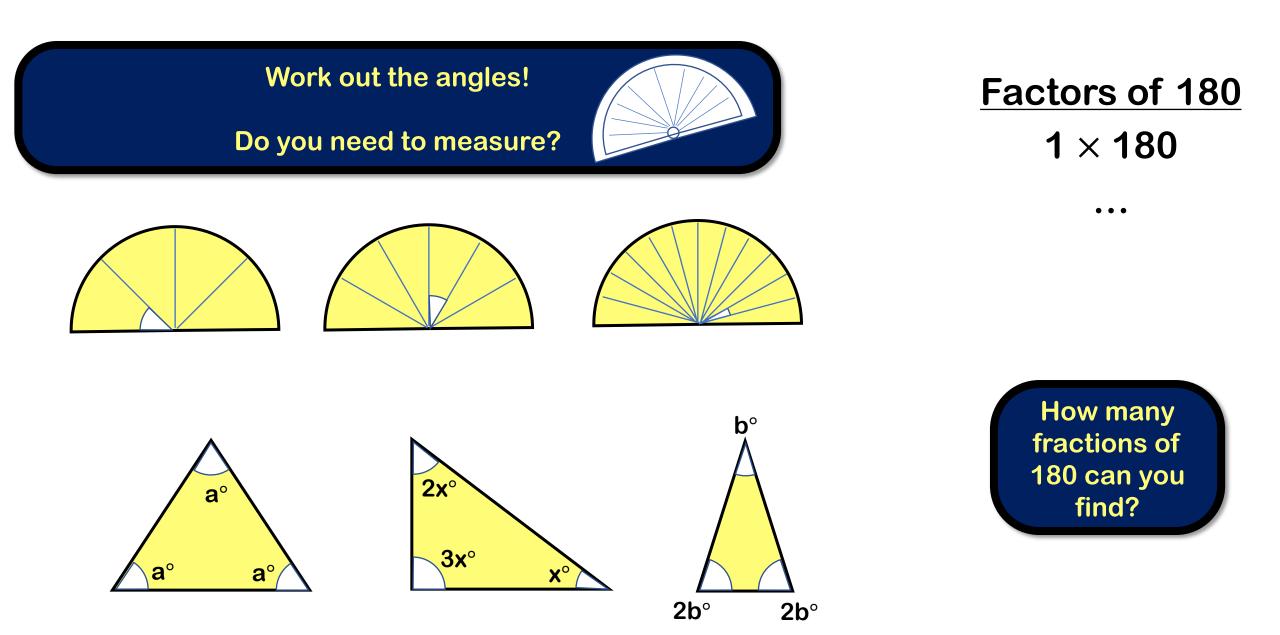
# Week 9 CODE Maths Hub Day 1 Some numbers have LOADS of factors



### Why did we choose 360?

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 $\frac{Factors of 45}{1 \times 45}$ 

. . .

 $\frac{Factors of 46}{1 \times 46}$ 

. . .

 $\frac{Factors of 90}{1 \times 90}$ 

Predict...

I × 90

. . .

Factors of 92 1 × 92

. . .

Factors of 270 1 × 270

. . .

 $\frac{Factors of 720}{1 \times 720}$ 

. . .

Predict which number has the most factors

Use a calculator to check you have found them all

## Conjectures

72 has double the number of factors of 36

Some prime numbers are also square numbers

Numbers always have an even number of factors, because they are factor pairs Decide if you agree or disagree.

Find examples and counter examples, or give reasons.

2 is a factor of all even numbers. 3 is a factor of all odd numbers

There are more whole number fractions of 60 than of 100