Week 4 - Adventure Awaits…

Triangles

You're looking quite obtuse.

Don't pick on him. Not everyone's perfect like you.

I know, Right?

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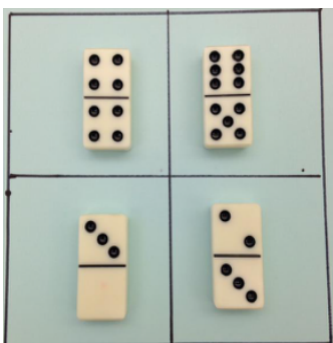
Recap - there are four different types of triangle:

Warm Ups!

Beat SIRI! - 4, 9 and 12 times table.

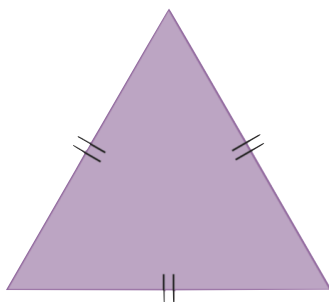The answer is… 3,606. What is the question?

Which is the odd one out? Why?
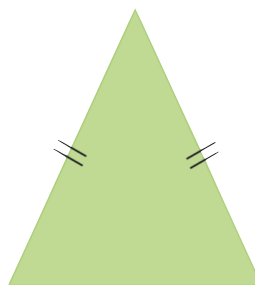
Number of the day: 803
- Write it in words.
- Even or odd?
- Place value grid it.
- Draw it.
- Partition it.
- 10 more?
- 10 less?
- 100 more?
- 100 less?
- Write 2 equations to get this as the answer.

Times Table Bingo - 7 and 5 times table.
Put multiples in the bingo grid, say a question in the times table, mark off if they have it.
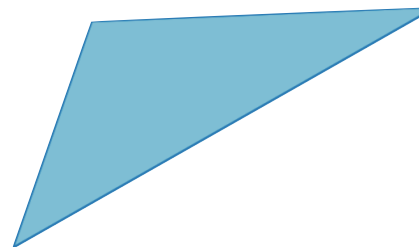
Equilateral
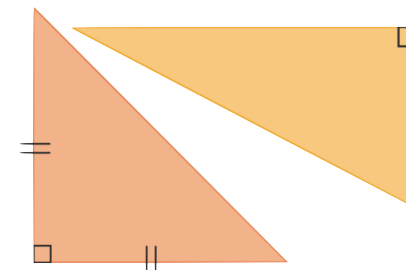All sides and angles are the same.

Isosceles
Two sides and angles are the same.

Scalene
None of the sides or angles are the same.

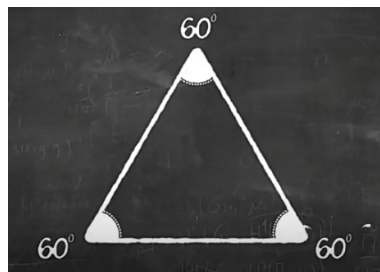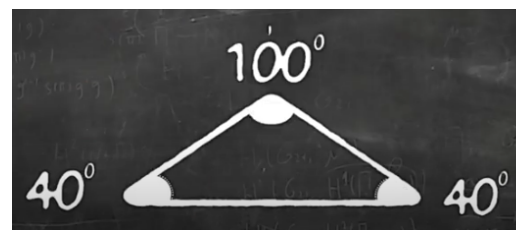**Right-Angle**
An isosceles and a scalene, can also be a right-angle triangle.

Regardless of type of **triangle**, the **angles inside** it (each place where two lines join), always add up to **180°**.
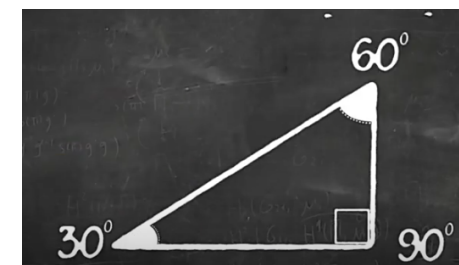
Watch this youtube video to learn a really catchy song about it: https://www.youtube.com/watch?v=JQUTVgT9RXY
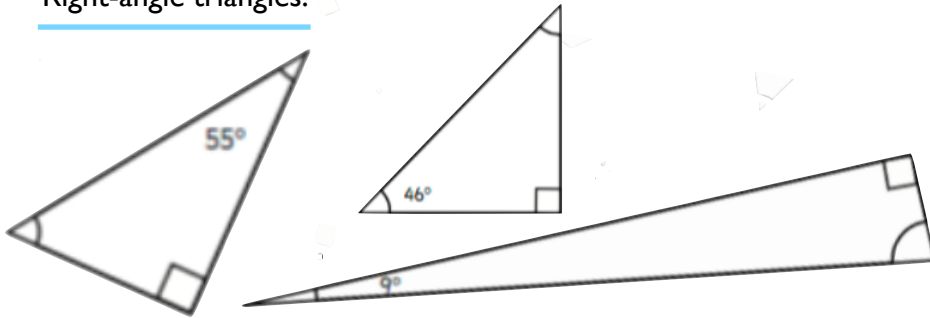
$60° + 60° + 60° = $ **180°**

$100° + 40° + 40° = $ **180°**
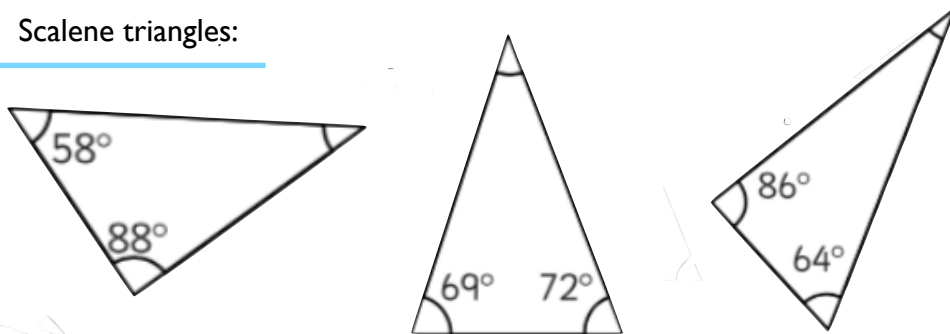
$60° + 30° + 90° = $ **180°**

This means that if an angle is missing from a triangle, you can work it out without having to measure it with a protractor.

Solve these missing triangle angles.

Right-angle triangles:

55°

46°

9°

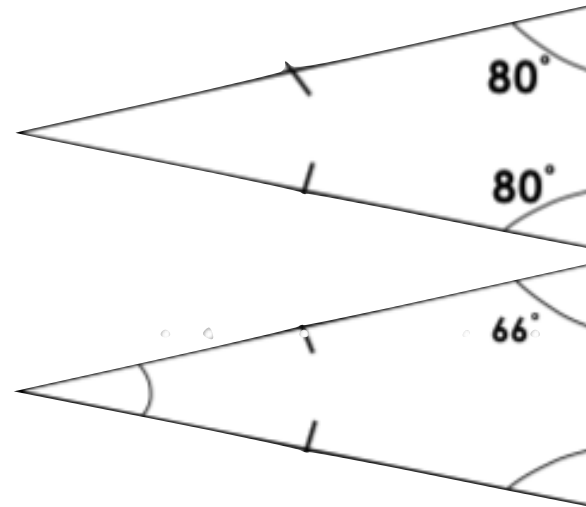Scalene triangles:

58°

88°

69°   72°

86°

64°

Isosceles triangles:

38°

132°

82°

If I have an equilateral triangle, the degrees of the angles will only ever be 60° - am I right?

Find the missing angles in these triangles.
Not drawn to scale.

80°

80°

66°

Are these statements correct? Why or why not?

I have drawn an isosceles triangle. The angles are 60 degrees, 40 degrees and 80 degrees.

I have drawn an isosceles triangle. The angles are 55 degrees, 55 degrees and 70 degrees.

I have drawn an isosceles triangle. The angles are 55 degrees, 55 degrees and 70 degrees. All three sides are the same length.

Challenge!

Can you combine this weeks knowledge and last weeks about angles on a straight line to solve these missing angles?

60°

70°   a   130°

70°

115°   b   45°

d

82°

97°   c