1

In a triangle, angle x is an acute angle.

Which of the following could be the measure of angle x?

A 45°　　　　B 90°　　　　C 120°　　　　D 180°

1

2

A local bakery is making a large batch of cupcakes for a school fair.

The cupcakes need to be supplied on trays, each holding 18 cupcakes.

If they need to supply 864 cupcakes in total, how many trays will they need?

A 48　　　　B 32　　　　C 36　　　　D 42

1

3

A local bakery is experimenting with different recipes for their signature cupcakes.

They are trying out various ratios of flour to sugar.

Which of the following recipes will require the least amount of flour relative to the amount of sugar used?

A 475g flour to 250g sugar　　　　B 380g flour to 200g sugar　　　　C 285g flour to 150g sugar　　　　D 190g flour to 125g sugar

1

4

A school is planning a trip to the zoo for its students. The cost of hiring 12 buses is £3 600.

If each bus can accommodate 40 students, how much does the school need to charge each student to cover the cost of transportation?

A £7.50　　　　B £30　　　　C £75　　　　D £300

1

5

Four friends are collecting money for charity by doing a sponsored walk.

They walk 5 km, 8 km, 6 km and 7 km respectively.

What is the mean distance walked by the four friends?

A 6.5 km　　　　B 7.2 km　　　　C 5.8 km　　　　D 6.1 km

1

6 James is a freelance graphic designer who charges a base rate of £50 per project, plus an additional £2 for each revision he makes to the design.

Which of the expressions below represents the total amount in pounds that James earns for a project where he makes *r* revisions?

A 50 + 2*r*　　　　B 2*r* + 50　　　　C *r*(50 + 2)　　　　D 50*r* + 2

☐ 1

7 In a triangle, one of the angles is 110°.

What can you say about the type of triangle it is?

A acute　　　　B right-angled　　　　C obtuse　　　　D equilateral

☐ 1

8 Samantha is planning a party for her friends. She wants to hold the party on a date that is closest to the 15th of July.

Which of the following dates should Samantha choose for her party?

A 22nd August　　　　B 8th June　　　　C 30th April　　　　D 2nd October

☐ 1

9 A regular octahedron has all its faces coloured either red or blue.

If half of the faces are red, and there are 4 red faces, how many faces are blue?

A 4　　　　B 3　　　　C 5　　　　D Impossible to tell

☐ 1

10 Mrs Johnson is baking cakes for a school fundraiser.

She has 1.2 kg of flour, 0.75 kg of sugar, 900 g of butter and 1 500 g of icing sugar.

Which ingredient does she have the second smallest amount of?

A Flour　　　　B Butter　　　　C Sugar　　　　D Icing sugar

☐ 1