

Fractions

Applications of Mathematics Exam Questions

(1) Write the following values in order from greatest to least.

$$0.388, \frac{3}{8}, 38.38\%, 0.39$$

Justify your answer.

Source: 2019 P1 Q6 N5 Applications of Mathematics

(2) . A basic cookie dough mix requires butter, sugar, flour and chocolate chips.

- $\frac{1}{6}$ of the mix is butter
- $\frac{1}{3}$ of the mix is sugar
- $\frac{1}{4}$ of the mix is chocolate chips
- The rest of the mix is flour

Calculate the fraction of the mix that is flour.

Source: 2019 P1 Q10 N5 Applications of Mathematics

(3)

Guests at a wedding were asked to choose their main course.

- $\frac{3}{7}$ of the guests chose chicken
- $\frac{1}{3}$ of the guests chose beef
- the remaining guests chose the vegetarian option.

Calculate the fraction of guests that chose the vegetarian option.

Source: 2018 P1 Q5 N5 Applications of Mathematics

(4)

A class of pupils were asked about how they travelled to school on a particular day.

- $\frac{1}{6}$ of the pupils were driven to school in a car.
- $\frac{2}{5}$ of the pupils took the bus.
- The rest of the pupils walked to school.

Calculate the fraction of pupils who walked to school.

Source: Specimen P1 Q8 N5 Applications of Mathematics

(5)

Carol knows that she can travel 280 miles on a full tank of fuel. She is making a trip of 110 miles.

The diagram below shows the car's fuel gauge



Does she have enough fuel to make the journey?

Show working to justify your answer.

Source: 2015 P1 Q1 N5 Lifeskills

(6)

Dave and Elaine each have the same monthly data allowance on their mobile phone contract.

Dave has used $\frac{4}{7}$ of his monthly data allowance.

Elaine has used $\frac{5}{8}$ of her monthly data allowance.

Who has used the most data?

Give a reason for your answer.



Source: Specimen P1 Q1 N5 Lifeskills