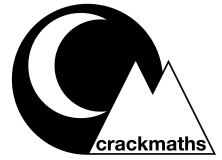


Topics 16 - 20: Exam Style



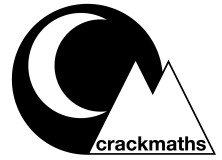
Question 1

A catering company is preparing fruit punch for an event.
One full container holds 6 litres.

The company has $17\frac{1}{4}$ litres of orange juice and $2\frac{2}{3}$ litres of apple juice.

- (a) Write $17\frac{1}{4}$ as a mixed number.
- (b) Write $2\frac{2}{3}$ as an improper fraction.
- (c) The orange juice is poured into 1-litre bottles. How many full bottles can be filled and how much orange juice is left?

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Question 2

A college has 864 students. A survey shows that $\frac{5}{12}$ of the students have a part-time job.

- (a) Work out how many students have a part-time job.
- (b) Of the students with a part-time job, $\frac{3}{8}$ work in retail.
Work out how many students work in retail.

(c) Write the number of students working in retail as a fraction of all 864 students. Give your fraction in its simplest form.

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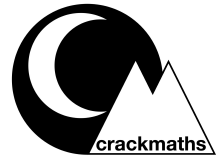
Question 3

A builder has several part-used bags of cement.

Bag	Amount remaining
A	$\frac{3}{4}$ bag
B	$\frac{5}{8}$ bag
C	$\frac{1}{3}$ bag

- (a) Work out the total amount of cement in Bags A and B.
- (b) The builder uses $\frac{2}{5}$ of a bag from this total. How much is left?
- (c) A job needs $\frac{3}{8}$ of a bag for each section. The builder has $\frac{3}{4}$ of a bag. Work out how many sections' worth of cement this represents.

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Question 4

A charity receives £18,750 from 250 donations. Of the 250 donations, 165 were made online.

(a) Write 165 as a fraction of 250. Give your answer in its simplest form.

(b) Write this fraction as a decimal and as a percentage.

(c) The charity expected 60% of donations to be made online. Was the actual proportion higher or lower than expected? Give the difference in percentage points.

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Question 5

Four machines are tested. Their efficiency scores are shown below.

Machine	Efficiency score
A	0.805
B	0.85
C	0.58
D	0.815

- (a) Put the four efficiency scores in order from smallest to largest.
- (b) Write the largest score as a percentage.
- (c) Write 0.58 as a fraction in its simplest form.