

Topics 6 - 10: Exam Style



Question 1

A community group is planning a day trip for 193 people.

Item	Cost
Coach hire	£1,785
Entry ticket	£14.75 per person
Lunch	£6.40 per person

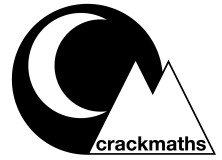
The organiser wants a quick estimate of the total cost of the trip.

Round each amount to a sensible value and estimate the total cost.

The group has £6,000 available.

Use your estimate to decide whether £6,000 is likely to be enough. Show how you made your decision.

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Question 2

A delivery company calculates the charge for a large delivery using the formula:

$$C = 2.8d + 45$$

where C is the charge in pounds and d is the distance travelled in miles.

A delivery travels 68 miles.

- (a) Work out the delivery charge.
- (b) The customer pays with £250. Work out how much change the customer should receive.

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Question 3

A college asks 640 students how they usually travel to college.

Method	Proportion of students
Bus	$\frac{3}{8}$
Train	0.20
Walk	25%
Other	Remaining students

- (a) Write $\frac{3}{8}$ as a decimal.
- (b) Write 25% as a decimal and as a fraction in its simplest form.
- (c) Which is greater: the proportion travelling by bus or the proportion travelling by train? Show how you know.
- (d) Work out how many students travel by bus.

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Question 4

A leisure centre records the proportion of members who attended at least once during one week.

Membership group	Proportion attending
Adult	0.84
Student	78%
Senior	$\frac{4}{5}$

- (a) Write 0.84 as a percentage and as a fraction in its simplest form.
- (b) Write 78% as a decimal and as a fraction in its simplest form.
- (c) Put the three membership groups in order from the smallest proportion attending to the largest.