

Topics 11 - 15: Exam Style



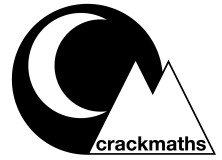
Question 1

A training company has 360 learners enrolled on three programmes.

Programme	Number of learners
Construction	144
Health & Social Care	126
Business	90

- (a) Work out 35% of the 360 learners.
- (b) What percentage of all 360 learners are on the Construction programme?
- (c) The company says, “More than $\frac{1}{3}$ of our learners are on Construction.” Is the company correct?
Show working to support your answer.

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Question 2

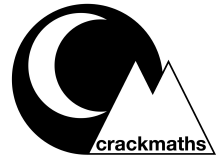
A shop sold 1,250 items in April and 1,475 items in May.

(a) Work out the percentage increase in the number of items sold from April to May.

(b) In June, the shop wants sales to be 12% higher than May. Work out the target number of items for June.

(c) The shop actually sells 1,630 items in June. Did it meet its target? Show how you know.

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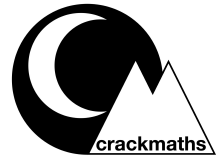
Question 3

A furniture store has a sale. A desk is reduced by 20% from its original price.

The sale price is £376.

- (a) Work out the original price of the desk.
- (b) A chair originally costs £185. It is also reduced by 20%. Work out the sale price of the chair.
- (c) A customer buys the desk and chair at their sale prices and pays £550. Work out the change.

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Question 4

At a community event, 84 out of 126 people who completed a feedback form rated the event as good or excellent.

- (a) Write $84/126$ as a fraction in its simplest form.
- (b) Write your simplified fraction as a decimal.
- (c) Another event received positive ratings from 65% of respondents. Which event had the greater proportion of positive ratings? Show how you know.

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Question 5

A gym had 480 members at the start of the year. By the end of the year, membership had fallen by 15%.

(a) Work out the number of members at the end of the year.

(b) The manager wants to return from this new membership figure to 480 members. The manager says, "We only need to increase membership by 15% to get back to 480."

Is the manager correct? Use calculations to explain your answer.