

E2.5 Linear Equations

Question Paper

Level	IGCSE
Subject	Maths (0580)
Exam Board	Cambridge International Examinations (CIE)
Level	Core
Topic	E2. Algebra and Graphs
Sub-Topic	E2.5 Linear Equations
Booklet	Question Paper

Time Allowed: 17 minutes

Score: /14

Percentage: /100

Grade Boundaries:

A*	A	B	C	D	E	U
>85%	75%	60%	45%	35%	25%	<25%

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1 (a) Solve these equations.

(i) $x + 7 = 15$

$x = \dots\dots\dots$ [1]

(ii) $5(3x + 8) = 10$

$x = \dots\dots\dots$ [3]

(b) A club is arranging transport for its members.

Speedy Coaches charge \$625 plus \$15 per member.

The total cost, in dollars, for x members is given by the expression $15x + 625$.

(i) **Sporty Coaches** charge \$117 plus \$19 per member.

Write an expression for the total cost, in dollars, for x members.

$\dots\dots\dots$ [2]

(ii) The total cost is the same for both **Speedy Coaches** and **Sporty Coaches**.

Write down an equation and solve it to find x .

$x = \dots\dots\dots$ [3]

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2 Solve the equation.

$$6(y + 1) = 9$$

$y = \dots\dots\dots$ [2]

3 Solve the equation.

$$5(3y - 2) = 35$$

Answer $y = \dots\dots\dots$ [3]
