

E2.1 Using Algebra to Solve Problems

Question Paper

Level	IGCSE
Subject	Maths (0580)
Exam Board	Cambridge International Examinations (CIE)
Level	Core
Topic	E2. Algebra and Graphs
Sub-Topic	E2.1 Using Algebra to solve problems
Booklet	Question Paper

Time Allowed: 14 minutes

Score: /12

Percentage: /100

Grade Boundaries:

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

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1 Simplify.

(a) $3f + 4f - 2f$

..... [1]

(b) $g^3 \times g^5$

..... [1]

2 (a) $p = 4r - 3t$

(i) Calculate the value of p when $r = 5$ and $t = -6$.

$p =$ [2]

(ii) Make r the subject of the formula $p = 4r - 3t$.

$r =$ [2]

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(b) Expand the brackets and simplify.

$$4(3x - 2) - 3(x - 5)$$

..... [2]

(c) Factorise completely.

$$12ab - 20a^2$$

..... [2]

3 Rearrange the formula to make w the subject.

$$5w - 3y + 7 = 0$$

$w =$ [2]