

Using Algebra

Difficulty: Easy

Question Paper 3

Level	IGCSE
Subject	Maths (0580/0980)
Exam Board	CIE
Topic	Algebra and graphs
Sub-Topic	Using Algebra
Paper	Paper 2
Difficulty	Easy
Booklet	Question Paper 3

Time allowed: 36 minutes

Score: /28

Percentage: /100

Grade Boundaries:

CIE IGCSE Maths (0580)

A*	A	B	C	D	E
>88%	76%	63%	51%	40%	30%

CIE IGCSE Maths (0980)

9	8	7	6	5	4	3
>94%	85%	77%	67%	57%	47%	35%

Question 1

Calculate the radius of a sphere with volume 1260 cm^3 .

[The volume, V , of a sphere with radius r is $V = \frac{4}{3}\pi r^3$.]

[3]

Question 2

Rearrange the formula $c = \frac{4}{a-b}$ to make a the subject.

[3]

Question 3

Make x the subject of the formula. $y = \frac{x}{3} + 5$ [2]

Question 4

Expand the brackets and simplify.

$$\frac{1}{2}(6x - 2) - 3(x - 1) \quad [2]$$

Question 5

Make x the subject of $y = \frac{(x + 3)^2}{5}$. [3]

Question 6

Rearrange the formula $J = mv - mu$ to make m the subject. [2]

Question 7

$$\frac{g}{2} = \sqrt{\frac{h}{i}}$$

Find i in terms of g and h .

[3]

Question 8

Make d the subject of the formula $c = \frac{5d + 4w}{2w}$.

[3]

Question 9

Make x the subject of the formula.

$$P = \frac{x + 3}{x} \quad [4]$$

Question 10

Expand and simplify $2(x - 3)^2 - (2x - 3)^2$. [3]