

Proportion

Question Paper 2

Level	IGCSE
Subject	Maths
Exam Board	Edexcel
Topic	Equations, Formulae and Identities
Sub Topic	Proportion
Booklet	Question Paper 2

Time Allowed: 27 minutes

Score: /22

Percentage: /100

Grade Boundaries:

A*	A	B	C	D	E	U
>85%	75%	70%	60%	55%	50%	<50%

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1 A , r and T are three variables.

A is proportional to T^2

A is also proportional to r^3

$T = 47$ when $r = 0.25$

Find r when $T = 365$

Give your answer correct to 3 significant figures.

.....
(Total for Question 1 is 4 marks)

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2 y is directly proportional to \sqrt{x}
When $x = 49$, $y = 4$

(a) Find a formula for y in terms of x .

.....
(3)

(b) Calculate the value of x when $y = 12$

$x =$
(2)

(Total for Question 2 is 5 marks)

3 Here is a list of ingredients needed to make 16 cookies.

Ingredients for 16 cookies
120 g butter
150 g sugar
240 g flour
170 g chocolate
1 egg

Max wants to make 40 cookies.

(a) How much flour does Max need?

..... gr
(2)

Abby made cookies to sell at a school fair.
She used 600 g of butter.

(b) How many cookies did she make?

.....
(2)

(c) Find the ratio of the weight of sugar to the weight of flour in the list of ingredients.
Give your answer in the form 1: n

1 :
(2)

(Total for Question 3 is 6 marks)

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- 4 Q is inversely proportional to t^2
 $Q = 320$ when $t = 0.5$

Find a formula for Q in terms of t

(Total for Question 4 is 3 marks)

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- 5 M is directly proportional to p^3
 $M = 128$ when $p = 8$

(a) Find a formula for M in terms of p .

.....
(3)

(b) Find the value of M when $p = 5$

.....
(1)

(Total for Question 5 is 4 marks)