

Percentages

Question Paper 6

Level		IGCSE
Subject		Maths (0580)
Exam Board		Cambridge International Examinations (CIE)
Paper Type		Extended
Topic		Number
Sub-Topic		Percentages
Booklet		Question Paper 6
Time Allowed:	63 minutes	\omega \o
Score:	/52	
Percentage:	/100	
	Will.	
Grade Boundaries:	Why was a series of the series	

A*	А	В	С	D	Е	U
>85%	75%	60%	45%	35%	25%	<25%

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1 In a sale, the cost of a coat is reduced from \$85 to \$67.50.

Calculate the percentage reduction in the cost of the coat.

Answer % [3]

2

		ompany uses 512 actors in a film. rs are in the ratio men: women: children = 7:	11 : 14.
(a)	(i)	Show that there are 224 children in the film.	
		Answer(a)(i)	
			[2]
	(ii)	Find the number of men in the film.	
			Answer(a)(ii)[1]
(b)		ery working day, each child is given \$1 to spend. h child works for 45 days.	
		culate the total amount that the film company give e your answer correct to the nearest \$100.	es the children to spend.
		Č	Answer(b) \$ [2]
(c)	The	children have lessons every day in group of no	more than 12.
	Cal	culate the smallest possible number of groups.	
(d)	The	e film costs four million and ninety three thousand	Answer(c) [2]
(u)	(i)	Write this number in figures.	dollars to make.
			<i>Answer(d)</i> (i)[1]
	(ii)	Write your answer to part (d)(i) in standard form	m.
			<i>Answer(d)</i> (ii) [1]
(e)		OVD copy of the film costs \$2.75 to make. e selling price is \$8.20.	
	Cal	culate the percentage profit.	

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(a)	Alfonso has \$75 to spend on the internet. He spends some of the money on music, films and books.
	(i) The money he spends on music, films and books is in the ratio
	music: films: books = 5:3:7.
	He spends \$16.50 on music.
	Calculate the total amount he spends on music, films and books.
	<i>Answer(a)</i> (i) \$ [3]
	(ii) Find this total amount as a percentage of the \$75.
	Answer(a)(ii) % [1]
	21115 WCF (W)(II)
(b)	The download times for the music, films and books are in the ratio
	music: films: books = 2:9:1.
	The total download time is 3 hours and 33 minutes.
	Calculate the download time for the films. Give your answer in hours, minutes and seconds.

3

Answer(b) hours minutes seconds [3] (c) The cost of \$16.50 for the music was a reduction of 12% on the original cost. Calculate the original cost of the music.

Answer(c) \$...... [3]

4

There are three different areas, A, B and C, for seating in a theatre. The numbers of seats in each area are in the ratio $A:B:C=11:8:7$. There are 920 seats in area B.		
(a)	Show that there are 805 seats in area C.	
	Answer(a)(i)	
	[1]	
(b)	(ii) Write the number of seats in area B as a percentage of the total number of seats. Answer(a)(ii)	
(c)	Answer(b)	
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	rage 5017	

5 (a) The running costs for a papermill are \$75246.

This amount is divided in the ratio labour costs: materials = 5:1.

Calculate the labour costs.

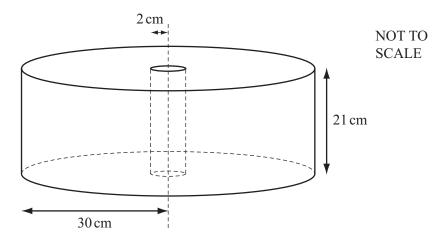
(b) In 2012 the company made a profit of \$135 890. In 2013 the profit was \$150 675.

Calculate the percentage increase in the profit from 2012 to 2013.

(c) The profit of \$135 890 in 2012 was an increase of 7% on the profit in 2011.

Calculate the profit in 2011.

(d)



Paper is sold in cylindrical rolls.

There is a wooden cylinder of radius 2 cm and height 21 cm in the centre of each roll.

The outer radius of a roll of paper is 30 cm.

(i) Calculate the volume of paper in a roll.

Answer(d)(i) cm³ [3]

- (ii) The paper is cut into sheets which measure 21 cm by 29.7 cm. The thickness of each sheet is 0.125 mm.
 - (a) Change 0.125 millimetres into centimetres.

Answer(d)(ii)(a) cm [1]

(b) Work out how many whole sheets of paper can be cut from a roll.