

Finance Problems

Question Paper 2

Level		IGCSE
Subject		Maths (0580)
Exam Board		Cambridge International Examinations (CIE)
Paper Type		Extended
Topic		Number
Sub-Topic		Finance Problems
Booklet		Question Paper 2
Time Allowed:	60 minutes	
Score:	/50	
Percentage:	/100	
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Grade Boundaries:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

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>85%	75%	60%	45%	35%	25%	<25%

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1	(a)	Luc is painting the doors in his house. He uses $\frac{3}{4}$ of a tin of paint for each door.		
		Work out the least number of tins of paint Luc needs to pa	aint 7 doors.	
			Answer(a)	[3]
	(b)	Jan buys tins of paint for \$17.16 each. He sells the paint at a profit of 25%.		
		For how much does Jan sell each tin of paint?		
		Ar	nswer(b) \$	[2]
	(c)	The cost of \$17.16 for each tin of paint is 4% more than the	he cost in the previous year.	
		Work out the cost of each tin of paint in the previous year	:	
		Ar	nswer(c) \$	[3]

(d) In America a tin of paint costs \$17.16. In Italy the same tin of paint costs \in 13.32. The exchange rate is $\$1 = \notin 0.72$.

Calculate, in dollars, the difference in the cost of the tin of paint.

(e)		nt is sold in cylindrical tins of height 11 cm. ch tin holds 750 ml of paint.		
	(i)	Write 750 ml in cm ³ .		
	(ii)	Calculate the radius of the tin. Give your answer correct to 1 decimal place.	nswer(e)(i) cm ³	[1]
	(iii)	An. A mathematically similar tin has a height of 22 cm. How many litres of paint does this tin hold?	swer(e)(ii)cm	[3]
(f)		e mass of a tin of paint is 890 grams, correct to the nearly ork out the upper bound of the total mass of 10 tins of paint of the total mass of 10 tins of paint is 890 grams.		[2]
(g)		e probability that a tin of paint is dented is 0.07. It of 3000 tins of paint, how many would you expect to	Answer(f) g be dented?	[1]
(h)		as of paint are filled at the rate of 2 m ³ per minute. w many 750 ml tins of paint can be filled in 1 hour?	Answer(g)	[2]

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3	Emily invests $$x$$ at a rate of 3% per year simple interest
	After 5 years she has \$20.10 interest.

Find the value of x.

Answer x =	 [3]
	F - 1

- 4 Pam wins the student of the year award in New Zealand.
 She sends three photographs of the award ceremony by post to her relatives.
 - one of size 13 cm by 23 cm to her uncle in Australia
 - one of size 15 cm by 23 cm to her sister in China
 - one of size 23 cm by 35 cm to her mother in the UK

Maximum lengths	Australia	Rest of the world
13 cm by 23.5 cm	\$1.90	\$2.50
15.5 cm by 23.5 cm	\$2.40	\$2.90
23 cm by 32.5 cm	\$2.80	\$3.40
26 cm by 38.5 cm	\$3.60	\$5.20

The cost of postage is shown in the table above. Use this information to calculate the total cost.

Answer \$	 [3]	1

5

Dav	id se	lls fruit at the market.	
(a)	a) In one week, David sells 120kg of tomatoes and 80kg of grapes.		
	(i)	Write 80 kg as a fraction of the total mass of tomatoes and grapes. Give your answer in its lowest terms.	
		Answer(a)(i)[1]	
	(ii)	Write down the ratio mass of tomatoes: mass of grapes. Give your answer in its simplest form.	
		Answer(a)(ii) [1]	
(b)	(i)		
		He also sells 35 kg of apples. The total he receives from selling the oranges and the apples is \$86.38.	
		Calculate the price of 1 kilogram of apples.	
		$Answer(b)(i) \$ \qquad [2]$	
	(ii)	The price of 1 kilogram of oranges is \$1.56. This is 20% more than the price two weeks ago.	
		Calculate the price two weeks ago.	
		<i>Answer(b)</i> (ii) \$ [3]	
(c)	The	another day, David received a total of \$667 from all the fruit he sold. cost of the fruit was \$314.20.	
	Dav	rid worked for $10\frac{1}{2}$ hours on this day.	
	Calo	culate David's rate of profit in dollars per hour.	