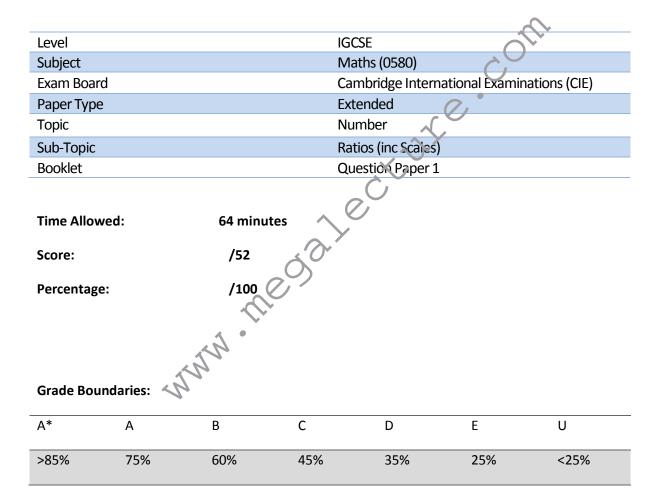


Ratios (inc Scales)

Question Paper 1



1 A map is drawn to a scale of 1 : 1000000. A forest on the map has an area of 4.6 cm^2 .

Calculate the actual area of the forest in square kilometres.

..... km² [2]

2 Ahmed and Babar share 240 g of sweets in the ratio 7:3.

Calculate the amount Ahmed receives.

Answer g [2]

- 3 A football club sells tickets at different prices dependent on age group.
 - (a) (i) At one game, the club sold tickets in the ratio

under 18 : 18 to 60 : over 60 = 2 : 7 : 3.

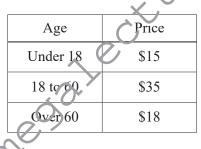
.....[3]

.....% [1]

There were 6100 tickets sold for people aged under 18.

Calculate the total number of tickets sold for the game.

- (ii) Calculate the percentage of tickets sold for people aged under 18.
- (b) The table shows the football ticket prices for the different age groups.



At a different game there were 42 600 tickets sold.

- 14% were sold to people aged under 18
- $\frac{2}{3}$ of the tickets were sold to people aged 18 to 60
- The remainder were sold to people aged over 60

Calculate the total amount the football club receives from ticket sales for this game.

(c) In a sale, the football club shop reduced the price of the football shirts to \$23.80. An error was made when working out this sale price. The price was reduced by 30% instead of 20%.

Calculate the correct sale price for the football shirt.

\$.....[5]

4 (a) Last year a golf club charged \$1650 for a family membership. This year the cost increased by 12%.

Calculate the cost of a family membership this year.

		<i>Answer(a)</i> \$	[2]
(b)	The golf club runs a competiti The total prize money is share The 1st prize is \$500 more that	d in the ratio 1st prize : 2nd prize = $9:5$.	
	(i) Calculate the total prize r	noney for the competition.	
		Answer(b)(i) \$	[2]
	(ii) What percentage of the to	otal prize money is given as the 1st prize?	
	WWW .		
	NN IN	Answer(b)(ii)%	[1]

- (c) For the members of the golf club the ratio men: children = 11:2. The ratio women: children = 10:3.
 - (i) Find the ratio men: women.

Answer(c)(i) [2]

www.youtube.com/megalecture Page 5 of 9

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(ii) The golf club has 24 members who are children.

Find the total number of members.

Answer(c)(ii) [3]

(d) The club shop sold a box of golf balls for \$20.40.

Calculate the cost price of the golf balls.

5 Pip and Ali share \$785 in the ratio Pip:Ali = 4:1.

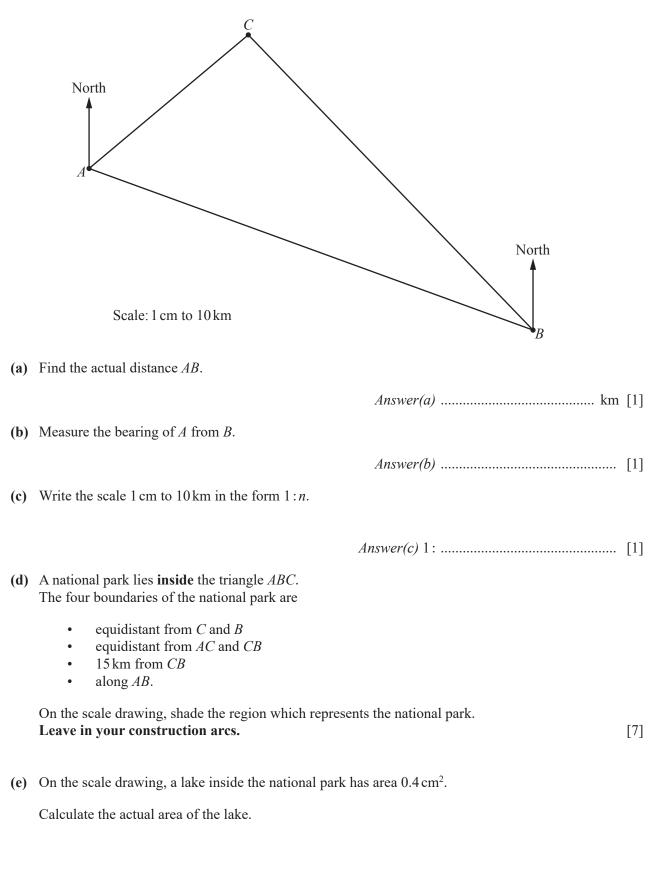
Work out Pip's share.

www.youtube.com/megalecture Page 6 of 9

6 The scale on a map is 1 : 50 000. The area of a field on the map is 1.2 square centimetres.

Calculate the actual area of the field in square kilometres.

Answer Coth Answer Coth Megalecture 7 The scale drawing shows the positions of three towns *A*, *B* and *C* on a map. The scale of the map is 1 centimetre represents 10 kilometres.



Answer(e) km² [2]

www.youtube.com/megalecture Page 8 of 9

8 Ahmed, Batuk and Chand share \$1000 in the ratio 8:7:5.

Calculate the amount each receives.

	Answer Ahmed \$	
	Batuk \$	
	Chand \$	[3]
9	On a mountain, the temperature decreases by $6.5 ^{\circ}$ C for every 1000 metres increase in height. At 2000 metres the temperature is $10 ^{\circ}$ C.	
	Find the temperature at 6000 metres.	
	nee	
	Answer °C [2]	