

Grade 12 Mathematical Literacy: Question Paper 1

MARKS: 150

TIME: 3 hours

QUESTION 1

- 1.1 On a given day, the bank advertises the Rand : Euro exchange rate as 1 : 0,0868.
How many Euros can you buy with R 5 000,00 on this day? (3)
- 1.2 A house plan is drawn using a 1 : 75 scale
1.2.1 The front door is 2,4 cm tall on the plan. How tall is the door in reality? (3)
1.2.2 The plot of land on which the house is being built is 14 m wide. What is the corresponding length on the plan? (3)
- 1.3 The conversion table below is used to convert between the shoe sizes of different systems. Refer to this table to answer the questions that follow.

System		Sizes												
Europe		35	35½	36	37	37½	38	38½	39	40	41	42	43	44
Japan	M	21,5	22	22,5	23	23,5	24	24,5	25	25,5	26	26,5	27,5	28,5
	W	21	21,5	22	22,5	23	23,5	24	24,5	25	25,5	26	27	28
U.K.	M	3	3½	4	4½	5	5½	6	6½	7	7½	8	8½	9
	W	2½	3	3½	4	4½	5	5½	6	6½	7	7½	8	8½
Inches		9	9¼	9½	9¾	9½	9¾	9¾	9¾	10	10¼	10½	10¾	10¾
Centimeters		22,8	23,1	23,5	23,8	24,1	24,5	24,8	25,1	25,4	25,7	26	26,7	27,3

- 1.3.1 What is the European equivalent of a UK (W) size 5 shoe? (2)
1.3.2 What shoe size would a Japanese man with a size 24 foot ask for in the U.K. (2)
1.3.3 The standard inch : cm conversion rate is 1 : 2,54 cm. According to the table 9¼ inches = 23,8 cm. Is this correct? Show your working (3)
- 1.4 The box and whisker plot below represents the batting averages of the 160 cricketers who have batted in T20 matches since 1 January 2009. Answer the questions that are based on the plot.



- 1.4.1 What is the name given to the two data points with value 57 and 57,33? (2)
1.4.2 How many players have a batting average that is less than 6,25? (2)
1.4.3 What must a batsman's batting average be for him to be in the top quartile? (2)
1.4.4 Jaques Kallis is the South African with the highest batting average. If his average is 48,4, how does he compare with the other batsmen? (2)

[24]

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