

Grade 10 Mathematical Literacy

MARKS: 150

TIME: 3 hours

QUESTION 1

- 1.1 Calculate the following:
- 1.1.1. $3,5(7,45 - 2,98)$ (1)
 - 1.1.2. $35 + 12 \times 4$ (1)
 - 1.1.3. $\frac{3}{4}$ of R375 (2)
 - 1.1.4. $\frac{3}{4} + 1\frac{1}{2}$ (1)
- 1.2 A pair of jeans costs R299. How much will you pay for them if you get a $33\frac{1}{3}\%$ discount? (2)
- 1.3 The dilution instructions on an energy sports drink concentrate are: dilution ratio (concentrate and water) 1 + 4.
- 1.3.1 Explain what is meant by this instruction. (2)
 - 1.3.2 How many ml of concentrate and how many ml of water do you need to make up 1litre of energy drink? (2)
 - 1.3.3 If your friend mixes $3\frac{1}{2}$ cups concentrate with 15 cups of water, will his energy drink taste the same as yours? Explain your answer. (3)
- 1.4 Vusi works at a car-wash. He earns R55 a day plus R10 for every car he washes. Calculate how much he earned if he:
- 1.4.1 washed 5 cars. (2)
 - 1.4.2 washed 7 cars (2)
 - 1.4.3 washed x cars. (2)
- 1.5 Fatimah is getting a 5,5% increase in salary and Ali is getting an increase in salary of R292,50 more per month. Fatimah earns R4 575 per month and Ali earns R6 500 per month.
- 1.5.1 Determine Fatimah's new salary per month. (2)
 - 1.5.2 Who received the greater increase in terms of actual money? (1)
 - 1.5.3 Who received the greater percentage increase? Show your working. (2)
- 1.6 Priscilla earned R1 725 for 15 days work. Determine how much she would earn if she worked for 20 days. (3)
- 1.7 The scale on a map is 1:50 000. If the distance between two towns on the map is 3,7cm, determine the distance between the towns in kilometers. (4)

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Xiang Xie



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