



## GRADE 10 MATHEMATICAL LITERACY JUNE EXAM PAPER 2

### QUESTION 3 10 MARKS

Jane is going on a hockey tour. The hockey girls decide to host a movie night at school to raise funds. Entrance to the movie is R20,00 per person or R25,00 including popcorn and a cold drink. 80 learners pay entrance only and 125 learners pay for the combo.

- 3.1 Write the number of learners that paid R20 versus the number of learners that paid R25 as a ratio in its simplest form. (2)
- 3.2 The school has 325. Write the number of learners that will be attending the movie night as a fraction over the total amount of learners in the school. (2)
- 3.3 Determine the percentage of learners that will be attending the movie night. (3)
- 3.4 Determine the gross income of the movie night. (3)

### QUESTION 2 MAPS & PLANS 10 MARKS

Use the information below to answer the questions that follow.

The movie night will take place in the school hall. The dimensions of the hall is 50m x 15m. Adjacent to the left of the hall are boys and girls' bathrooms with combined dimensions of 10m x 5m.

- 2.1 Draw a floor plan of the school hall and the adjacent bathrooms. (5)
- 2.2 How many learners can fit into the hall if they allocate 2 learners per 1m<sup>2</sup>? (5)
- 2.3 Based on your answer in QUESTION 2.2, will there be enough space for the movie night? (2)

### QUESTION 3 MEASUREMENT 10 MARKS

Jane wants her team to do practice drills to improve their fitness. Practice will be for 100 minutes starting at 14h15.

- 3.1 Convert 100 minutes to hours. (2)
- 3.2 Draw a number line from 14h15 to 15h15. (2)

The dimensions of the hockey field are 91m x 55m.

- 3.3 Draw a rectangle representing the hockey field on your number line. (2)
- 3.4 Convert your answer in QUESTION 3.3 to kilometres. (2)

The hockey girls practice 3 times a week for the whole season that is roughly around 15 weeks.

- 3.5 How many kilometres will they have travelled in total? (2)

### QUESTION 4 10 MARKS

The layout of the school where the hockey tour is taking place is shown on ANNEXURE A. Study the map to answer the following questions.

- 4.1 Kyle is late and you need to give her directions from the main gate to the hockey field. (2)
- 4.2 Draw a route from the main gate to the hockey field. (2)

Use the formula:  
 $\text{Distance} = \text{Speed} \times \text{Time}$

- 4.3 In which direction is the tuck shop from the C pavilion? (2)
- 4.4 If they girls stay at a guest house 15min away from the school, what time should they leave the school to get to the guest house? (3)
- 4.5 How long will it take to travel from the school to the guest house if they leave at 14h15? (2)

# Memorandum Mathematical Literacy Papergrade10

**Zhe Xu**



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