

ELAND JUNIOR SCHOOL
Mid Year Exams
Grade Seven
2012
Mathematics Paper 2

Section A (25 marks)

Answer all questions in this section.

1. a) Write 25 007 in words. [1]
b) Express $\frac{1}{4}$ as a decimal. [1]
2. a) $10^5 - 72\,649$ [2]
b) $5\frac{5}{6} \div 3\frac{1}{9}$ [2]
3. A farmer put a 4 strand wire fence round his farm with sides measuring 1,734km, 0,538km, 1,207km and 0,916km.
a) Calculate the perimeter of the farm. [2]
b) What is the total of the wire used to fence the farm? [2]
4. A pedestrian travelled a distance of 6 km walking at an average speed of 8km/hr. Calculate in minutes, the time taken for the journey. [3]
- 5.

Triangle ABC is equilateral and triangle ACD is isosceles. Find the value of X. [3]

6. The pie chart below shows the percentage of pupils in different clubs at Masoro Primary School.

- a) Calculate the angle x . [2]
- b) Find the percentage of pupils in the Music club. [2]
- c) The total number of pupils at the school is 860. Calculate the number of pupils in the Drama club. [2]

7.

The bar graph shows the number of patients who consulted a doctor at Gura Hospital.

- a) At what time did most patients consult the doctor? [1]
- b) Calculate the total number of patients who consulted the doctor. [2]

Section B (15 marks)

Answer any three questions in this section.

8. A man was 52 years old in 2002.

- a) In what year was he born? [2]
- b) If his wife is 10 years younger than him, when was she born? [3]

9. The table below shows an incomplete invoice.

- a) Given that the customer was charged 15% sales tax, calculate the value of the sales tax charged. [2]
- b) If the customer tendered sixty \$1 000 notes, calculate the change received. [3]

10. Study the time table of a bus that travelled between Harare and Bulawayo.

- a) Express the departure time from Harare in 12 hour notation. [1]
- b) For how long did the bus stop in Gweru? [1]
- c) Find the average speed of the bus excluding stopping time, if the distance between Harare and Bulawayo is 440km. [3]

11. Mr. Dube bought a single bed on hire purchase. It was marked \$55 000. He paid 20% deposit and the balance in 11 monthly instalments.

- a) Find the deposit he paid. [2]
- b) Calculate his monthly instalment. [3]

12.

The diagram shows a drum containing 200l of paint and containers A and B with capacities of 25l and 10l respectively.

- a) If container A was filled with paint 6 times, find the number of times container B would be filled with the remaining paint in order to empty the drum. [4]
- b) Write down the ratio of total volume emptied by container B to total emptied by container A in simplest form. [1]