

Question 1

- 1.1 Explain the difference between the following:
 - 1.1.1 Whole numbers and integers. (4)
 - 1.1.2 Rational and irrational numbers. (4)
- 1.2 Determine the LCM and the HCF of 7 and 13. (4)
- 1.3 The ratio of the price of a brown bread to that of a 2 litre bottle of milk, is 1 : 3
 - 1.3.1 If a brown bread costs R11.00, then calculate the cost of a 2 litre bottle of milk. (2)
 - 1.3.2 If I have R100.00, then how many loaves of brown bread and litres of milk could I buy according to this ratio? (8)
 - 1.3.3 How much change would I receive from the R100.00? (2)
- 1.4 The wind speed forecast for a cyclone approaching Florida in America, was given as 130 miles per hour. Determine this speed in metres/second. (8)
- 1.5 Draw a triangular diagram to represent the relationship between time, speed and distance. (3)
- 1.6 David's car ran out of petrol 11 km from the nearest petrol station. If he took an empty can and walked to the garage at an average speed of 3,8km/hour, how long did it take him to get back to his car? (4)
- 1.7 Give your time in hours. (Ignore his time at the petrol station) If he left his car to fetch petrol at 22:15, at what time did he get back to his car? (5)
- 1.8 When two values are in indirect proportion, what happens when the one value decreases? (2)
- 1.9 A farmer has a field of 10 000 cabbages. They harvest these at 2 500 cabbages per day.
 - 1.9.1 Draw a table to show the relationship of cabbages in the field and cabbages harvested.

Cabbages	10 000		
harvested	0		

- 1.9.2 Is this a direct or indirect proportion? (4)
- 1.9.3 If a graph was drawn of the values in the table, would the graph line increase or decrease from left to right? (2)
- 1.10 After harvesting, the farmer decided to plant another 10 000 cabbages at a cost of R0.50 per plant.
 - 1.10.1 How much money did he need to borrow from the bank for these cabbages? (2)

- 1.10.2 He took the loan at a compound interest rate of 11,5% per annum, payable over 3 months.

Calculate his monthly payment.

- 1.11 Trudy works in a furniture shop and earns a salary of R6 000.00 per month plus 7,5% commission on her sales. If she sold furniture to the value of R54 000.00 in June, what was her total earnings for June? (8)
- 1.12 Teboho owns an engineering shop and needed to buy some more equipment. The best price he could find for one of the machines he needed, was in China, where the cost was 84 500 Yuan.
 - 1.12.1 Calculate the cost of this machine in Rand if 1 Yuan = R2.08. (4)
 - 1.12.2 If he still had to pay 23% of this value for shipping and import duties, then determine his total cost for this machine. (3)

[74]

Question 2

- 2.1 Write the following fractions in simplest form:

2.1.1 $\frac{100bc}{75ac}$ (3)

2.1.2 $\frac{13p}{65p}$ (2)

- 2.2 Calculate the following in common fraction form:

2.2.1 $5\frac{1}{3} + 2\frac{1}{4}$ (4)

2.2.2 $3 - 4\frac{1}{3}$ (4)

2.2.3 $\frac{6c}{7d} \times \frac{4c}{8}$ (3)

2.2.4 $2\frac{1}{9} \div \frac{1}{6}$ (4)

- 2.3 A mother and her 2 children, Sammy and Theresa, buy a house for R1,4 million. If they each paid an equal portion of the house, then calculate:

2.3.1 How much did Theresa pay? (3)

2.3.2 If they earn a total of R9 500.00 in rent, how much of the rent does Sammy get per annum? (3)

[26]

TOTAL MARKS : 100
MBK