



education
MPUMALANGA PROVINCE
REPUBLIC OF SOUTH AFRICA

GENERAL EDUCATION AND TRAINING

GRADE 8

MATHEMATICS
MARCH TEST 2025
CIRCUIT COMMON ASSESSMENT

MARKS: 50

TIME: 1½ hours

This question paper consists of 5 pages including cover page.

INSTRUCTIONS AND INFORMATION**Read the following instructions before answering the questions**

1. This question paper consists of 5 questions. Answer ALL the questions.
2. Clearly show all calculations that you have used in determining your answers.
3. Non-programmable calculators may be used.
4. If necessary, answers should be rounded off to two decimal places.
5. Number your answers EXACTLY as the numbering system indicated on this question paper.
6. The diagrams are NOT necessarily drawn to scale.
7. Work neatly and legibly.

QUESTION 1

1. Circle the letter of the correct answer in the answer book provided.

- 1.1 Simplify: $10 + 3 \times 5 - 20 =$ (1)
A. 65
B. 45
C. 15
D. 5
- 1.2 Write the given ratio 750 : 350 in simplest form. (1)
A. 150 : 175
B. 30 : 35
C. 15 : 7
D. 6 : 7
- 1.3 Martha was paid R360 for working 24 hours. What was her hourly rate? (1)
A. 15
B. 80
C. 36
D. 236
- 1.4 The car travels a distance of 80km in 30 minutes? Calculate it's average speed. (1)
A. 80 km/h
B. 40 km/h
C. 160 km/h
D. 20 km/h
- 1.5 Calculate: $13,78 \times 2,11 =$ (1)
A. 15,89
B. 29,0758
C. 92,7508
D. 29,0875

[5]**QUESTION 2**

- 2.1 Write 124 as a product of its prime factors (2)
- 2.2 Find the LCM of 12 and 18 (3)
- 2.3 Determine the percentage decrease if a chocolate that cost R10 is marked down to R7. (3)

- 2.4 Ashley, Sipho and Zoe are 3 brothers aged 5, 4 and 2 respectively. Together the brothers get R880 pocket money each month. If the total pocket money is split in the same ratio as their ages. how much will Sipho get? (3)
- 2.5 A packet of apples cost R22 excluding VAT. What will the price of the apples be once 15% VAT is added to the price? (3)

[14]**QUESTION 3**

3. Calculate the following

3.1 $-23 - (-18)$ (2)

3.2 $2(8 - 3 + 4)$ (2)

3.3 $(3)^3 + (-2)^2$ (2)

3.4 $\sqrt{16} + (-1)^3$ (2)

3.5 $\frac{-6+3(-4)-3(4)}{(2+3)(-3)}$ (3)

[11]**QUESTION 4**

- 4.1 Calculate the following without the use of a calculator.

4.1.1 $3\frac{2}{3} \div \frac{4}{7}$ (3)

4.1.2 $10 \div \frac{3}{2}$ (2)

4.1.3 $\left(1\frac{2}{3}\right)^2$ (2)

- 4.2 Simplify:

4.2.1 $\sqrt{\frac{25}{49}}$ (1)

4.2.2 $\sqrt[3]{\frac{8}{27}} + \left(\frac{1}{2}\right)^2$ (3)

[10]

QUESTION 5

5.1 Calculate and show all your working:

5.1.1 $0,12 \times 0,06$ (2)

5.1.2 $0,064 \div 0,4$ (3)

5.1.3 $(0,7)^3$ (2)

5.1.4 $\sqrt{0,16} =$ (2)

[9]
Total Marks 50