



KWAZULU-NATAL PROVINCE

EDUCATION
REPUBLIC OF SOUTH AFRICA

**GENERAL EDUCATION AND
TRAINING (GET)**

GRADE 8

Stanmorephysics.com

MATHEMATICS
2025 UGU DISTRICT TERM 1 TEST

NAME OF SCHOOL: _____
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LEARNER NAME: _____

MARKS OBTAINED _____ %

DURATION: 1 HOUR

MARKS: 50

Instructions to candidates

1. This paper consists of **TWO** sections, A and B.
2. Section A items are multiple choice type (MCQ). In order to respond to items in this section, you have to circle the letter corresponding to the correct answer.
3. Section B items are open ended and free response question types.
Use the spaces provided to respond to items in this section.
4. NB. This question paper consists of 6 **pages including the cover page.**

QUESTION 1: MULTIPLE CHOICE QUESTIONS

[10]

- 1.1 Which of the following expressions is undefined? (1)
- A. $\frac{5}{1}$
- B. $\frac{0}{5}$
- C. $\frac{5}{5}$
- D. $\frac{1}{0}$
- 1.2 270 as the product of its prime factors is (1)
- A. $2 \times 3 \times 5 \times 9$
- B. $5 \times 5 \times 5 \times 5 \times 2 + 2 \times 10$
- C. $2 \times 3 \times 3 \times 3 \times 5$
- D. $2 \times 2 \times 5 \times 5 \times 2 + 20 \times 50$
- 1.3 A car travels for 300 km at a constant average speed of 120 km/h. If the trip started at 09:00, when will the car reach the destination? (1)
- A. 10:00
- B. 12:00
- C. 13:00
- D. 11:30
- 1.4 Josi-traders buys boxes of hamburger patties at R40 each at a profit of $66\frac{2}{3}\%$. What will the buyer pay for a box, including 14% VAT? (1)
- A. R76
- B. R95
- C. R86
- D. R65
- 1.5 Which of the following is $-2(4 - 7) + 5(3 + 2)$ simplified, using the distributive property? (1)
- A. 13
- B. 31
- C. 11
- D. 9
- 1.6 A certain number multiplied by 3 equals -12 . What is the multiplicative inverse of the number? (1)
- A. $-\frac{1}{4}$
- B. $\frac{1}{4}$
- C. 3

D. -6

1.7 What is the quotient when you divide 8 by $\frac{2}{3}$? (1)

- A 4
- B $\frac{8}{2}$
- C 12
- D $\frac{3}{8}$

1.8 Calculate: $\frac{3}{4} \div \frac{2}{11} =$ (1)

- A $\frac{33}{8}$
- B $2\frac{6}{20}$
- C $\frac{3}{10}$
- D $\frac{5}{2}$



1.9 Which of the following options shows the number $\frac{5}{6}$ in its equivalent decimal and percentage forms? (1)

- A. 0,75 and 75%
- B. 0,5 and 60%
- C. 0,85 and 85%
- D. 0,833 and 83,3%

1.10 $0,75 \div 0,25 =$ (1)

- A. 0,3
- B. 3,0
- C. 0,75
- D. 0,25

QUESTION 2:

[12]

2.1 Use prime factorisation to determine the HCF of 75 and 120 (2)

2.2 A school decided to increase the number of desks in the ratio 5:3. If the initial number of desks was 72, how many desks will there be after the increase? (3)

2.3 The ratio of cats to dogs is 9:4. If there are 78 animals, how many cats are there? (2)

2.4 A carton of milk in a supermarket costs R18 excluding VAT. What will the price of milk be once VAT of 14% is added onto the price? (2)

2.5 Mpho exchanged 5000 South African rands (ZAR) for US dollars (USD) at an exchange rate of 1 USD = R14.50 (ZAR). How many USD did Mpho receive? (3)

QUESTION 3:

[10]

3.1 Calculate without using a calculator: Show working

3.1.1 $9 + 3 + (-4)$ (2)

3.1.2 $\frac{(-2 \times -3)}{6}$ (2)

3.1.3 $\frac{(-3)(2) + 18}{(3 \times 5) - 18}$ (2)

3.1.4 $\frac{(3)^3 + (-5)^2}{\sqrt{16}}$ (2)

3.2 Sandza has saved R78 and he further saves R2 per day for a period of 10 days. How much will he have at the end of 10 days if he withdraws R125? (2)

QUESTION 4 Calculate

[10]

4.1 $\frac{1}{3} \div \frac{2}{3}$

(2)

4.2 $\left(\frac{3}{2}\right)^2 - \sqrt[3]{\frac{27}{55+9}}$

(3)

4.3 Increase R120 by 25%

(1)

4.4 Ann bought a shirt that was priced at R200, but she was given a discount of 30%. How much did she actually pay for it? (2)

(2)

4.5 If a loaf of bread has 20 slices and 30 people received a total of 900 slices, how many loaves of bread did each person receive? Write your answer as a mixed fraction. (2)

(2)

QUESTION 5

[8]

5.1 Calculate: $4,25 \times 2,75$

(2)

5.2 Using the knowledge of place values, estimate the number of decimal places in the result of $0,305 \times 0,13$

(1)

5.3 Calculate the value of $(2,5)^2$

(3)

5.4 Gadiwe bought 3,75 litres of engine oil for her car, she used 2,25 litres to oil her car's engine and 0,50 liters for her motorcycle. How many litres of oil does Gadiwe have left?

(2)

TOTAL: 50



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GRADE 8

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2025 UGU DISTRICT TERM 1 TEST
MARKING GUIDELINES

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QUESTION 1: Circle the letter of the correct answer in the following questions		[10]
1.1	C ✓	(1)
1.2	C ✓	(1)
1.3	D ✓	(1)
1.4	A ✓	(1)
1.5	B ✓	(1)
1.6	A ✓	(1)
1.7	C ✓	(1)
1.8	A ✓	(1)
1.9	D ✓	(1)
1.10	B ✓	(1)
QUESTION 2		(12)
2.1	$75 = 3 \times 5^2$ $120 = 2^3 \times 3 \times 5 \checkmark$ HCF = $3 \times 5 = 15 \checkmark$	(2)
2.2	$= 72 \div \frac{5}{3}$ $= 72 \div 3 \times 5 \checkmark$ $= 24 \times 5$ $= 120 \checkmark$ The new number of desks will be $120 + 72$ $= 192 \checkmark$	(3)
2.3	The ratio of cats to dogs is 9:4. If there are 78 animals, how many cats are there? $= \frac{9}{13} \times 78 \checkmark$ $= 54 \text{ cats} \checkmark$	(2)
2.4	A carton of milk in a supermarket costs R18 excluding VAT. What will the price of milk be once VAT of 14% is added onto the price. Vat of 14% = $R18 \times \frac{14}{100}$ $= R 2,52 \checkmark$ Price including VAT = $R18 + R2,52 = R20,52 \checkmark$	(2)
2.5	$\frac{5000}{14,50} \checkmark$ $= 344,83 \text{ USD} \checkmark$ Mpho received \$ 344,83 ✓	(3)

QUESTION 3		[10]
3.1	$9 + 3 + (-4)$ $= 12 - 4 \checkmark$ $= 8 \checkmark$	(2)
3.2	$\frac{(-2 \times -3)}{6}$ $= \frac{6}{6} \checkmark$ $= 1 \checkmark$	(2)
3.3	$\frac{(-3)(2) + 18}{(3 \times 5) - 18}$ $= \frac{-6+18}{15-18} \checkmark$ $= \frac{12}{-3}$ $= -4 \checkmark$	(2)
3.4	$\frac{(3)^3 + (-5)^2}{\sqrt{16}}$ $= \frac{27+25}{4} \checkmark$ $= \frac{52}{4}$ $= 13 \checkmark$	(2)
3.5	$R78 + 2(10) \checkmark$ $= R78 + R20$ $= R98 - R125$ $= -R27 \checkmark$	(2)

QUESTION 4		[10]
4.1	$\frac{1}{3} \div \frac{2}{3}$ $= \frac{1}{3} \times \frac{3}{2} \checkmark$ $= \frac{3}{6}$ $= \frac{1}{2} \checkmark$	(2)
4.2	$\left(\frac{3}{2}\right)^2 - \sqrt[3]{\frac{27}{55+9}}$ $= \frac{9}{4} - \sqrt[3]{\frac{27}{64}} \checkmark$ $= \frac{9}{4} - \frac{3}{4} \checkmark$ $= \frac{6}{4}$ $= \frac{3}{2} \checkmark$	(3)

4.3	Increase R R120 by 25 % $= R120 \times \frac{125}{100}$ $= R150 \checkmark$	(1)
4.4	$R200 \times \frac{70}{100} \checkmark$ or $R200 \times \frac{30}{100} = R 60 \checkmark$ $= R140 \checkmark$ $R200 - R 60 = R140 \checkmark$	(2)
4.5	$\frac{900 \text{ slices}}{20 \text{ slices}} \checkmark$ $= 45 \text{ loaves}$ $\frac{45 \text{ loaves}}{30 \text{ people}}$ $= 1 \frac{1}{2} \text{ loaves per person} \checkmark$	(2)

QUESTION 5		[8]
5.1	$4,25 \times 2,75$ $= 11,6875 \checkmark \checkmark$	(2)
5.2	$0,305 \times 0,13$ $= 5 \text{ decimal places} \checkmark$	(1)
5.3	$(2,5)^2$ $= 2,5 \times 2,5 \checkmark$ $= 25 \times 25$ $= 625 \checkmark$ $= 6,25 \checkmark$	(3)
5.4	$3,75 - 2,25 - 0,50$ $3,75$ $\underline{-2,25}$ $1,50 \checkmark$ $\underline{-0,50}$ $= 1,00 \checkmark$	(2)

TOTAL: 50