



**KWAZULU-NATAL PROVINCE**  
**EDUCATION**  
REPUBLIC OF SOUTH AFRICA

**UMKHANYAKUDE DISTRICT**

**GRADE 8 MATHEMATICS P1**

**NOVEMBER 2023**

**MARKING GUIDELINES**

**MARKS: 60**

**This consists of 3 pages including the cover page**

**QUESTION 1**

- 1.1 = A ✓✓
- 1.2 = C ✓✓
- 1.3 = C ✓✓
- 1.4 = C ✓✓
- 1.5 = D ✓✓

**[10]**

**QUESTION 2**

<b>2.1.1</b> $6a^2 + 2ab - 6a^2 - 12ab$ $= -10ab$	✓ $6a^2$ ✓ $-12ab$ ✓ answer
<b>2.1.2</b> $\frac{(-2)(-4)(6)}{-4}$ $= \frac{48}{-4}$ $= -12$	✓ Substitution ✓ answer
<b>2.1.3</b> $4^x = 4^3$ $x = 3$	✓ $4^3$ ✓ Answer
<b>2.1.4</b> $3x = 9$ $x = 3$	✓ 9 ✓ Divide by 3 both ✓ answer

**[10]**

**QUESTION 3**

<b>3.1</b> = 10	✓ answer
<b>3.2</b> $0,00125 = 1,25 \times 10^{-3}$	✓ 1,25 ✓ $10^{-3}$
<b>3.3</b> $= 40 \times \frac{5}{4}$ $= 50$	✓ Substitution ✓ answer
<b>3.4</b> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="width: 45%;"> <math>\frac{x}{30} = \frac{5}{20}</math> ✓  <math>20x = 30 \times 5</math> ✓  <math>20x = 150</math> ✓  <math>x = 7,5</math> ✓✓                             </div> <div style="width: 45%;">                                 10 rolls = <math>5 \div 2 = 2,5</math> ✓✓                                  OR <math>10 + 10 + 10</math>  <math>= 2,5 + 2,5 + 2,5</math> ✓  <math>= 7,5</math> tablespoons ✓✓                             </div> </div>	✓ Substitution ✓ $30 \times 5$ ✓ $20x$ ✓ Divide by 20 ✓ answer

**[10]**

**QUESTION 4**

<b>4.1.1</b> 3; 6; 9;12;15	✓ All 5 values (max) ✓ Mark each 1 mark
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4.1.2	Pattern Number	1	2	3	4	5	8	10	12	22	✓ 24 ✓ 30 ✓ 36 ✓ 66
	Number of dots	3	6	9	12	15	24✓	30✓	36✓	66✓	
4.1.3	$T_3 = 9 = 3(3)$ $T_n = 3n \checkmark$ $T_{22} = 3(22) \checkmark$ $= 66 \checkmark$										✓ 3n ✓ + 0 ✓ Substitution ✓ Answer

[13]

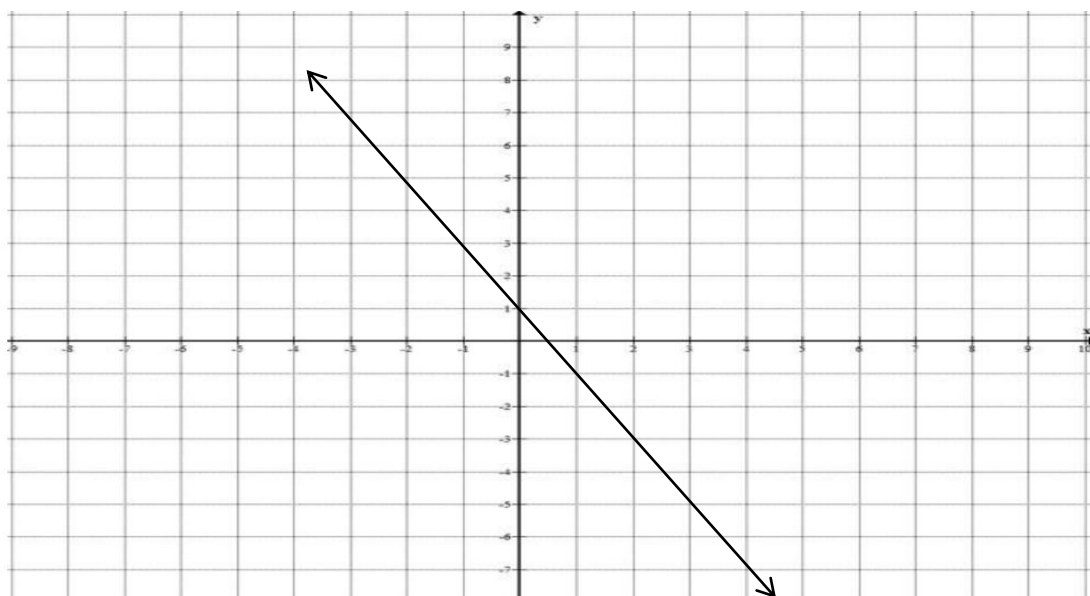
**QUESTION 5**

5.1	$= -3(3 \times -3 + 4 \times 4)$ $= -3(-9 + 16)$ $= -3(7)$ $= -21$	✓ (-9+16) ✓ 7 ✓ Answer
5.2.1	$= \frac{6x^3}{2x} + \frac{2x^2}{2x} + \frac{4x}{2x}$ $= 3x^2 \checkmark + x \checkmark + 2$	✓ Dividing by 2x ✓ $3x^2$ ✓ X ✓ 2
5.2.2	(a) tri-nominal ✓ (b) 12 ✓ (c) 6 ✓ (d) x and y ✓ (e) 5 ✓ (f) first degree ✓	✓ Tri-nomial ✓ 12 ✓ 6 ✓ X and y ✓ 5 ✓ First degree

[13]

**QUESTION 6**

6.1 (-2;5) ✓ (0;1) ✓ (1;-1) ✓ Shape ✓ (4)



**TOTAL MARKS = 60**