

Question 3:

3.1. $8a^3 + 4a^2$ (2)

3.2. $-6x^4y^2 + 3x^4y^3$ (2)

3.3. $2x^2 - 4$ (2)

3.4. $5xy - 3xy + x + 2x = 2xy + 3x$ (2)

3.5. $\sqrt{16x^2} = 4x$ (2)

Question 4:

4.1. $-6x^8$ (2)

4.2. $2a^3b^3 \times a^4b^6 = 2a^7b^9$ (3)

4.3. $\frac{3}{p^2}$ (2)

4.4. $\frac{2x^3 \cdot 2^3x^3}{32x^9} = \frac{16x^6}{32x^9} = \frac{1}{2x^3}$ (4)

Question 5:

5.1. $\frac{15}{100} \times 23450 = R3517,50$ (2)

5.2. $2+3+5 = 10$

$\frac{2}{10} \times 34500 = 6900$

$\frac{3}{10} \times 34500 = 10350$

$\frac{5}{10} \times 34500 = 17250$

$6900 : 10350 : 17250$ (5)

5.3. $A = P(1+in)$
 $= 2500(1 + 3 \times \frac{12,5}{100})$
 $= R3437,50$ (3)

Question 6:

6.1. $2x = 20$ $x = 10$ (2)

6.2. $3x + 6 - 12 + 4x = 21$

$7x - 6 = 21$ $7x = 27$

$x = \frac{27}{7}$ (4)

6.3. $6x = 4(x-1)$ $6x = 4x - 4$

$2x = -4$ $x = -2$ (3)

$$6.4. \quad 3^x = 3^3 \quad x = 3 \checkmark$$

(1)

Question 7:

7.1. $y = 3x - 1 \checkmark$

(2)

7.2. 17. \checkmark

(1)

7.3. On answer sheet.

(5)

Question 8:

$a = 45^\circ \checkmark$ (L sum of Δ) \checkmark

(2)

$b = 67^\circ \checkmark$ (L sum of str. line) \checkmark

(2)

$x = 114^\circ \checkmark$ (vert. opp) \checkmark

(2)

$y = 114^\circ \checkmark$ (alternate || lines) \checkmark

(2)

$z = 66^\circ \checkmark$ (L sum str. line) \checkmark

(2)

Question 9:

9.1. S.A = 6 x Area side

$$= 6 \times (5 \times 5) \checkmark = 150 \text{ cm}^2 \checkmark$$

(3)

9.2. Vol = area of base x height

$$= \pi r^2 \times h \checkmark = \pi (3)^2 (12) \checkmark$$

$$= 339,29 \checkmark$$

(4)

Question 10:

10.1. ANSWER SHEET

(4)

10.2. 25 \checkmark

(1)

10.3. 29 \checkmark

(1)

10.4. Mean = $\frac{618}{20} \checkmark = 30,9 \checkmark$

(2)

10.5. $49 - 12 = 37 \checkmark$

(2)

Question 11:

11.1. $\frac{5}{12} \checkmark$

11.2. $\frac{3}{12} \checkmark$

11.3. $\frac{0}{12} \checkmark$

11.4. $\frac{8}{12} \checkmark$

(4)

NAME:

Memo

CLASS:

ANSWER SHEET FOR GRADE 8 MATHS EXAM - NOVEMBER 20116

Question 7.3:

Question 1:

1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	1.10
C	D	A	C	A	C	D	C	A	C

10

Question 2:

2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	2.10
E	H	J	C	B	D	A	F	G	I

10

Question 10.1:

1	2 4 4 8	✓
2	1 3 5 5 8	✓
3	0 4 6 9	✓
4	1 4 6 6 8 9	✓

4

