MEMO.

Question 1:

1.1. C	1.2. B	1.3 A
1.4. C	1.5 ~~E~~	1.6 B
1.7 D	1.8 C	1.9 A
1.10 D	1.11 B	1.12 C
1.13. C	1.14 C	1.15 D.

Question 2:

2.1.2. $4 \div 0$ is undefined

2.1.2. $x + y = t$ means $x = t - y$.

2.2. $-5,8$; $0,058$; $0,58$; $0,85$; $8,5$

Question 3:

3.1.1. $-1-6-2 = -9$

3.1.2 $\sqrt{25x^2} = 5x$

3.1.3 $7^1 \times 2^2 = 28$

3.2.1 $-5 + (-1)(-4) = -5+4 = -1$

3.2.2. $5+(-6)+(-4) - (-3)^2 = 5-6-4-9 = -14$

Question 4:

4.1. 8, 3, −2, −7.

4.2.

x	1	3	4	7	9	11
y	3	7	9	15	19	23

4.3. $y = 4x + 2$.

Question 5:

5.1. $\frac{5}{4} \times \frac{4}{3} = \frac{5}{3}$.

5.2. $\left[\frac{4}{27} \times \frac{16}{9}\right] - \frac{1}{8} = \frac{64}{243} - \frac{1}{8} = \frac{269}{243}$.

Question 6

6.1. $\frac{20}{100} \times R65 = R13$

6.2. $A = P(1+in) \Rightarrow A = 1500\left(1 + \frac{6}{100} \times 3\right)$

$A = R2770.$

6.3. $\frac{3}{5} \times 68,5 = 41,1.$

6.4. $3+4=7$ $\quad \frac{3}{7} \times R938 = R402$

$\frac{4}{7} \times R938 = R536$

Question 7

7.1. $3x+20+10-2x+4x+18+35-5x = AB$

$AB = 83.$

7.2.1. $-(-64x^3) - x^3 = 63x^3$

7.2.2. $8x^3y^3 - 4x^2y^3 - 8x^3y^3 = -4x^2y^3$

7.2.3. $\frac{9x^2y}{3xy^2} = \frac{3x}{y}.$

7.3.1. $x = -9.$

7.3.2. $x - 2x = -5 - 3 \Rightarrow -x = -8$

$x = 8.$

7.4. $5x + 8 = 3x \Rightarrow 5x - 3x = -8$

$2x = -8 \Rightarrow x = -4.$

Question 8

8.1.1. May.

8.1.2. $10+8+5+7+8 = 38 \times 1000 = 38000$

8.1.3. $\frac{38000}{5} = 7600.$

8.2.1.

1	3 6 9
2	3 3 6 6 6 7 9
3	3 4 4 5 6 7 8 8 9
4	0 1 2 3 5 6

8.2.2. 26

8.2.3. 34

8.2.4. $\frac{809}{25} = 32,4$.

Question 9

9.1.1. $C = 2\pi r = (2\pi)(70) = 140\pi$.

6 times $(140\pi) = 840\pi =$

9.1.2. $A = \pi r^2 - l \times b$

$= \pi(70)^2 - (22 \times 2)$

$= 4900\pi - 44 =$.

9.2.1. $AC^2 = 4^2 + 3^2$

$AC^2 = 25 \quad AC = 5$ cm

9.2.2. $SA = 2(\text{base}) + (\text{perimeter} \times \text{height})$

$= 2(\frac{1}{2}(3)(4)) + [(3+4+5) \times 15]$

$= 12 + (12 \times 15) = 192\ cm^2$.

9.3. $A(4:3) \rightarrow A'(-4:3)$

$B(-2:1) \rightarrow B'(-1:-3)$

$C(1:-2) \rightarrow C'(-1:2)$.

Question 10

10.1. AD and BC $(120° + 70° \neq 180°)$

10.2. $2x = 46°$ ($\angle$s opp = sides)

$\Rightarrow x = 23°$ (ext $\angle$ of $\triangle$).

10.3. $x + 50° = 110°$ (alternate EC // AB)

$\Rightarrow x = 60°$

$y + 110° = 180°$ (cointer. EA // BC)

$\Rightarrow y = 70°$.