TEST 1

Section 1 (Test 1)

- 1. 5,321,964: Five million, three hundred and twenty-one thousand, nine hundred and sixty four.
- 2. 61
- 3. $12\frac{1}{2}\% = \frac{25}{200} = \frac{1}{8}$
- 4. 4.08 x 0.6

5. 37 x 25 =
$$(37 x 20) + (37 x 5)$$

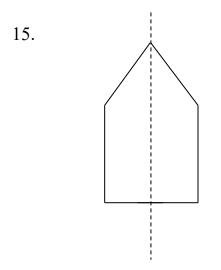
6. Area = 169cm^2 Length of Square = $\sqrt{169}$ = 13cm

7.
$$\frac{27}{1} \times \frac{10}{3} = 90$$

- 8. 25 x 8 = 200 + 5 = 205 sweets
- 9. 529 x 50 = 26, 450
- $10.136 \div 4 = 34$ books per shelf
- 11. Volume of Cuboid = 12cm x 12cm x 6cm = 864cm³

$$12.220 \div 60 = 3\frac{2}{3}$$
 hrs

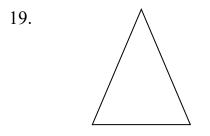
- 13. Lamp post = 3m
- 14. 6:50 a.m.



16. Mathematics = **N**I **N**II II

17. G H

18. Modal Age = 12 yrs



20. 19 x 10 = 190 boys

Section 2 (Test 1)

21.
$$40 \% = 240$$

 $\frac{40}{100} = 240$
 $\frac{4}{10} = 240$
Therefore, $\frac{10}{4} \ge \frac{240}{1} = 600$

Number = 600

22. Girls
$$=\frac{2}{5}$$

Boys $=\frac{3}{5}$
Boys $=\frac{3}{5} \times \frac{35}{1} = 21$ boys

23. Cost Price = \$5,600

V.A.T. = $12\frac{1}{2}\% = \frac{1}{8}$ V.A.T. on C.P. = $\frac{1}{8} \times 5,600 = \700

Total Price = \$5,600 + \$700 = \$6,300

24. Yes, Anya is correct. She saw that her remainder of 6 could give 1 more group of '<u>4</u>' so she added 1 more to 12 and got 13. Her reminder was then 2. Anya then arrived at an answer of 13, remainder 2.

25. Oranges = N

Mangoes = $3 \times N$

Therefore, N + 3N = 4N (4N is Oranges and Mangoes together)

4N = 640

 $N = 640 \div 4 = 160$

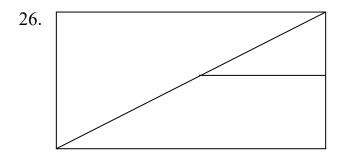
Oranges = 160

Mangoes = $3 \times 160 = 480$

160 Limes added

Total Fruits = 640 + 160 = 800

Mangoes =
$$\frac{480}{800}$$
 x 100 = 60 %



27. Average = 68 marks Total = $68 \times 4 = 272$ marks

> New Average = 70New Total = $68 \times 5 = 350$ marks Therefore, Marks needed = 350 - 272 = 78 marks

28. S.I. = P x R x T =
$$36,000 \times 12 \times 3 = $12,960$$

100

Money to Repay = 36,000 + 12,960 = 48,960

29. Pumpkin = 3 kg 20 g = 3000 g + 20 g = 3,020 g4 Pieces = 3,020 gTherefore, 1 piece = $3,020 \div 4 = 755 \text{ g}$ 30. Snacks $= \frac{1}{5}$ Dinner $= \frac{3}{10}$ Total Spent $= \frac{1}{5} + \frac{3}{10} = -\frac{2}{10} + \frac{3}{10} = -\frac{5}{10} = -\frac{1}{2}$ Allowance Left $= \frac{2}{2} - \frac{1}{2} = \frac{1}{2}$

31. Company A = Reg Time 10 hrs = \$40 per hour = 10 x \$40 = 400 Over Time = One Half times Reg rate = $1\frac{1}{2} \times 40 = \frac{3}{2} \times \frac{40}{1} = 60 per hour 2 hours Over Time = \$60 x 2 = \$120 Total Earnings = \$400 + \$120 = \$520

Company B = Reg Time \$45 per hour = $$45 \times 12$ hrs = \$540

Company B offers a better wage.

32.
$$90^{\circ} = 0$$

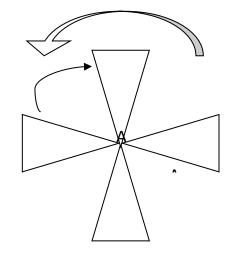
> $90^{\circ} = A, C$
< $90^{\circ} = B, D$

33.

ITEM	COST PER	QUANTITY	COST
	PORTION		
Fried Rice	\$ 25.00	1	\$ 25.00 +
Fried Chicken	\$ 45.00	1 + 1	\$ 90.00 +
Pepper Shrimp	\$ 60.00	2	\$ 120.00 +
Gin. Beef	\$ 30.25	1 + 1	\$ 60.50
		TOTAL	\$ 295.50

\$ 25.00 +	
\$ 45.00 +	
\$ 120.00 +	\$ 295.50 -
\$ 30.25	\$ 220.25
\$ 220.25	\$ 75.25





- 2 90° turns anti-clockwise
- 1 90° turn clockwise

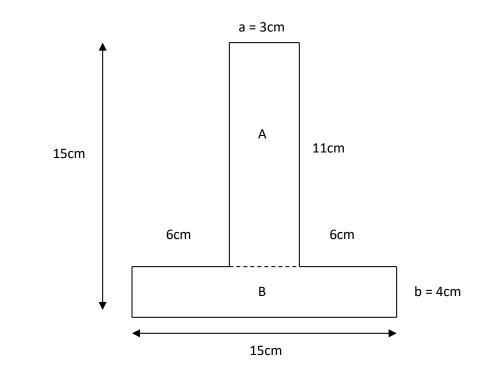
35.

$12 \times \$100 =$	\$1,200.00 +			
45 x \$ 20 =	\$	900.00 +		
$2 \times 50 =$	\$	100.00 +		
9 x \$ 10 =	\$	90.00 +		
75 x \$0.25 =	\$	18.75 +		
6 x \$0.10 =	\$	00.60		
<u>Amt Deposited = \$ 2,309.35</u>				

36. Area of Triangle = 42 cm^2 Triangle = $\frac{1}{2}$ Rectangle Therefore, Area of Rectangle = $42 \text{ cm}^2 \text{ x } 2 = 84 \text{ cm}^2$

The triangle is half the area of the rectangle so we multiply the area of the triangle by 2 to get the area of the rectangle.

- 37. Vol. of Cuboid Tank = $8,000 \text{ cm}^3$ Area of Base = 800 cm^2 Depth of Tank = $\frac{8000}{800}$ = 10 cm
- 38. Total weight of Packages = 900 g + 2.45 kg + 2,030 g + 3.02 kg= 0.900 + 2.45 + 2.030 + 3.02= 8.4 kgMean = $8.4 \text{ kg} \div 4 = 2.1 \text{ kg} (\text{or } 2100 \text{ g})$



b = 15cm - 11cm = 4cm a = 15cm - (6cm + 6cm) = 15cm - 12cm = 3cmArea of A = 11 x 3 = 33cm² Area of B = 15 x 4 = 60cm² Total Area = 93cm²

39.

40. Average Height = 9cm Therefore, Total Height = 9 x 4 = 36cm

Day 1 = 4cm +Day 2 = 8cm +Day 4 = 14cmTotal = 26cm

Height for Day 3 = 36cm - 26cm = 10cm

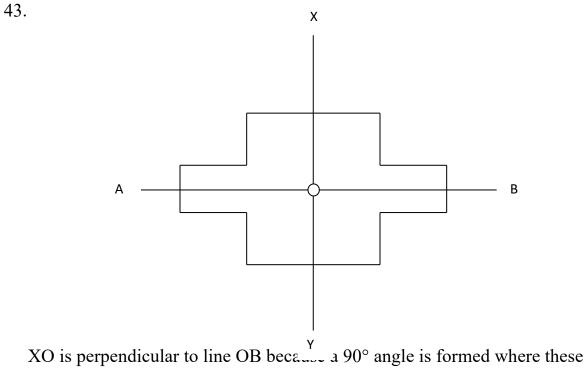
Section 3 (Test 1)

41. Peppers Picked = 800 Rotten = $25\% = \frac{1}{4} = -\frac{1}{4} \times \frac{800}{1} = 200$ peppers

Peppers Left = 800 - 200 = 600 peppers Market = $\frac{2}{3} \times 600 = 400$ peppers

No. of Bags = $400 \div 100 = 4$ bags x \$50 = \$200Peppers Left = 600 - 400 = 200No. of Heaps = $200 \div 5 = 40$ heaps @ \$10 per heap = \$400Total Money Made From Sales = \$200 + \$400 = \$600 42. Distance between 5th and 9th post = 5 posts + 4 spaces = 17 m 5 posts = 1m x 5 = 5m Therefore, 4 spaces = 17 m - 5 m = 12 m 1 space = 12m \div 4 = 3m Length of Driveway = A = 27 posts x 1m = 27m + B = 26 spaces x 3m = 78m





two lines meet.

44. Monday and Thursday = 30%3,520 + 3,980 = 7,500 = 30%

Total Produced $= \frac{100}{30} \times 7,500 = 25,000$

Wednesday's Production =
$$0.2 \text{ of } 25,000 = \frac{2}{10} \times 25,000$$

Friday = x
Tuesday = 3x
Total = 4x

$$4x = 25,000 - (7,500 + 5,000) = 25,000 - 12,500$$

 $4x = 12,500$
 $x = 12,500 \div 4 = 3,125$
Tuesday = 3,125 x 3 = 9,375

Friday = 3,125 x 5 = 5,125

Colours	Tally	Frequency	Total Points
Red	П	2	2
Blue	NU III	8	16
Green	III	3	9
Yellow	NAU NUI II	12	48

25 tries - 17 tries = 8 tries for Blue

Modal Color : Yellow Mean Points: 48 + 9 + 16 + 2 = 75 $75 \div 25 = 3$