

## TEST 6

### SECTION 1

1)  $372,106 =$  Tens of Thousand

2)  ${}^3\sqrt{125} = 5$

3)  $95\% = \frac{95}{100} = \frac{19}{20}$

4)  $0.728 \div 0.4 = 4 \overline{)7.28}$   
1.82

5)  $8916 \approx 8900$

6)  $\sqrt{144} \times 3^2 = 12 \times 9 = 108$

7)  $3\frac{2}{3} \times 2\frac{1}{7} = \frac{11}{3} \times \frac{15}{7} = \frac{55}{7} = 7\frac{6}{7}$

8)  $6126 \div 6 = 1021$

9) 

\$10	\$5	\$5
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5c	10c
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10) 
$$\begin{array}{r} 118 \\ 8 \overline{)936} \end{array}$$

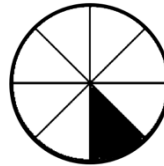
11) Volume of Cuboid =  $L \times W \times H$   
 $= 6 \times 6 \times 12$   
 $= 432\text{cm}^3$

12) kilometres

13) 6m

14)  $5 \times \$10 = \$50$

15)

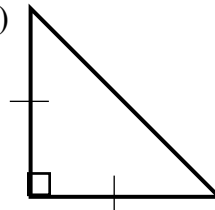


16) Perimeter = 54cm

$\therefore 1 \text{ side} = 54\text{cm} \div 3 = 18\text{cm}$

17) Chapter 4 = 31 pages

18)



19) Dog 17

Cats  $\text{||||} \text{|||}$

20) Hexagon

### SECTION 2

21) Mean = 16

$\therefore \text{Total} = 16 \times 5 = 80$

Ans: 82

22) Sue                  Father

$\$7 + \$13 = \$20$

Total =  $\$280 \div 20 = 14$  amts of Savings

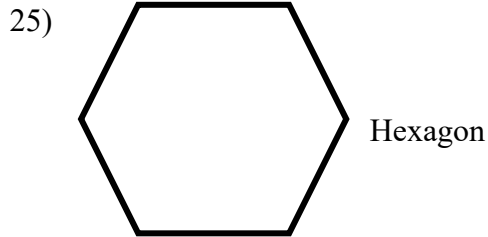
Father =  $\$13 \times 14 = \$182$

Add both Sue and Father's contribution. The total is then used to divide \$280 by The amount. The answer represents how many times Sue saved. Therefore the 14 times will give her a contribution of  $\$13 \times 14 = \$182$  that was contributed by father.

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23)  $\$20 + \$10 + \$5 + \$1 = \$36$   
Total = \$288  
No. of each bill =  $\$288 \div \$36$   
= 8 of each bill

24) Cube = 12 edges  
 $\therefore 78 \div 12 = 6$  cm length of side  
 $12 \times 6 = 72$ cm for frame  
 $78 - 72$ cm = 6cm of wire left



26) Cost Price = \$224.00  
 $12\frac{1}{2}\%$  VAT =  $\frac{1}{8} \times \frac{224}{1} = \$28$   
VAT inclusive price =  $\$224 + \$28$   
= \$252

27) Total Population = 520 students  
Boy =  $40\% = \frac{40}{100} \times \frac{520}{1} = 208$  Boys  
 $\therefore$  Girls =  $520 - 208 = 312$  Girls  
 $\frac{5}{6}$  girls = long hair  
 $\frac{1}{6}$  girls = short hair =  $\frac{1}{6} \times \frac{312}{1} = 52$  girls  
52 girls have short hair

28) S.I. =  $\frac{P \times R \times T}{100} = \frac{\$30,000 \times 12 \times 5}{100} = \$18,000$   
Total to repay =  $\$30,000 + \$18,000$   
= \$48,000  
Monthly Inst. =  $\$48,000 \div 60$   
= \$800

29) Common Fraction  $\frac{3}{8}$   
Percentage 55%  
Decimal Fraction 0.66

30) Discount =  $66\frac{1}{2}\% = \frac{5}{8}$   
Sale Price =  $\frac{8}{8} - \frac{5}{8} = \frac{3}{8}$   
 $\frac{3}{8} = \$3,600$   
Original Price =  $\frac{8}{3} \times \frac{\$3,600}{1} = \$9,600$

31) Concert Hall = 450 seats  
V.I.P. =  $\frac{1}{5} \times \frac{450}{1} = 90$  seats  
Artiste Seats =  $33\frac{1}{3}\%$   
=  $\frac{1}{3} \times (450 - 90)$   
=  $\frac{1}{3} \times \frac{360}{1} = 120$  seats

General Audience =  $360 - 120$   
= 240 seats

Total Money Collected = \$42,000  
V.I.P. Money = \$18,000  
General Artiste = \$42,000 \$18,000  
= \$24,000

Cost of Ticket for Gen. Seating  
=  $\$24,000 \div 240 = \$100$

32) Length of Cube = 3cm  
Volume of Cube =  $S \times S \times S$   
=  $3\text{cm} \times 3\text{cm} \times 3\text{cm}$   
=  $27\text{cm}^3$   
No. of Cubes In Model = 72  
Volume of Model =  $72 \times 27\text{cm}^3$   
=  $1,944\text{cm}^3$

## TEST 6

- 33) Home to P.O.S = 153 mins = 2hrs 33mins  
Time at Mall = 2hrs 12 mins  
P.O.S to Home = 153mins – 20mins  
= 133mins/ 2hrs 13mins

$$\begin{array}{r} \text{Total Time Used} = \text{hrs} \quad \text{mins} \\ 2 \quad 33 \\ + 2 \quad 12 \\ \hline 2 \quad 13 \\ \hline 6 \quad 58 \end{array}$$

Departure Time 11:11 a.m.

$$\begin{array}{r} + \quad 6:58 \\ 17:69 - 60 = 9\text{mins} \\ 18:09 \\ 18:09 \\ - 12:00 \\ \hline 6:09 \text{ p.m.} \end{array}$$

- 34) Win = 5 points  
Draw = 3 points  
Loss = 0 points

20 games

Games Played	Results	Points
11	Won	$55 \div 5$
6 (6×3)	Draw	18
3	Loss	0

- 35) 1 Bag = 8 mangoes  
 $\therefore 23 \text{ Bags} = 23 \times 8 = 184 \text{ mangoes}$   
7 mangoes left  
Total mangoes picked =  $184 + 7$   
= 191 mangoes

- 36) Mean = 20  
Total =  $20 \times 3 = 60$

$$\begin{array}{l} \text{Mean} = 20 \\ \text{Total} = 20 \times 4 = 80 \end{array}$$

Data – 19, 23

$$\therefore 60 - (19 + 23) = 60 - 42 = 18$$

$$80 - (19 + 23 + 18) = 80 - 60 = 20$$

Data with 3 number = 19, 23, 18

Data with 4 numbers = 19, 23, 18, 20

- 37) Area of Backyard =  $23\text{m} \times 14\text{m} = 322\text{m}^2$   
Area of Garden =  $8\text{m} \times 7\text{m} = 56\text{m}^2$   
Area of Pathway =  $322\text{m}^2 - 56\text{m}^2$   
=  $266\text{m}^2$

- 38) 10:30 a.m. to 11:00 a.m. = \$6  
11:00 a.m. to 3:50 p.m. =  $5\text{hrs} \times \$5$   
= \$25.00  
Total Paid =  $\$6 + \$25 = \$31.00$

- 39) 3 – 90° Turns

- 40) Lines of Symmetry = PQ, WX, AC, BD

### SECTION 3

- 41) Chicken and Fries – 3 - \$90.00  
Hamburger – 1 + 1 - \$25 + \$25  
Popcorn – 1 + 1 - \$7 + \$7  
Ice Cream – 1 - \$6  
Already spent =  $\$90 + \$25 + \$7 + \$6$   
= \$128  
Total spent =  $\$200 - \$15 = \$185$   
Still Left to spend =  $\$185 - \$128 = \$57$

Possible addition

$$\begin{array}{r} 2 \text{ Hamburgers } 2 \times \$25 = \$50 \\ 1 \text{ Popcorn } = 1 \times \$7 = \underline{\$7} \\ \hline \underline{\$57} \end{array}$$

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42) Mean = 34,000

$$\text{Total} = 34,000 \times 5 \text{ mths} = 170,000$$

$$\text{Feb} = 170,000 - (20,000 + 40,000 + 20,000 + 10,000)$$

$$= 170,000 - 90,000$$

$$= 80,000$$

Bar drawn to 80

Many tourists may have come for Carnival in February.

43) 5 – four-seaters

10 – three-seaters

43 pupils to be seated

$$5 \times 4 = 20$$

$$43 - 20 = 23 \text{ not divisible by } 3$$

$$4 \times 4 = 16$$

$$43 - 16 = 27 \text{ divisible by } 3 (27 \div 3 = 9)$$

$$4 \text{ – four-seaters} = 4 \text{ pupils} \times 4 \text{ desks} \\ = 16 \text{ pupils}$$

$$9 \text{ – three-seaters} = 3 \text{ pupils} \times 9 \text{ desks} \\ = 27 \text{ pupils}$$

$$27 + 16 = 43 \text{ pupils}$$

44) Volume of Tank =  $L \times W \times H$

$$= 10.5\text{m} \times 3.5\text{m} \times 4\text{m}$$

$$= 147\text{m}^3$$

$$\therefore \frac{2}{3} \text{ filled} = \frac{2}{3} \times 147\text{m}^3 = 98\text{m}^3$$

$$1\text{m}^3 = 1,000 \text{ Litres}$$

$$98\text{m}^3 = 1,000 \times 98 = 98,000 \text{ Litres}$$