

TEST 10

SECTION 1

1) $68,325 = (6 \times 10,000) + (8 \times 1,000) + (3 \times 100) + (2 \times 10) + (5 \times 1)$

2) 67

3) $\frac{75}{9} = 8\frac{3}{9} - 8\frac{1}{3}$

4) $9000 - 70 = 8,930$

5) $\begin{array}{r} 8:00 \text{ a.m.} \\ - \quad :45 \text{ mins} \\ \hline 7:15 \text{ a.m.} \end{array}$

6) Mean = 9
Total = $9 \times 6 = 54$
 $54 + 30 = 84$
New Mean = $84 \div 7 = 12$

7) \$26.65

8) $\begin{array}{r} 803 \quad 803 \quad \square = 2 \\ + 2\square 8 \quad - 575 \\ \hline 575 \quad 228 \end{array}$

9) $35.10 \div 5 = 7.02$

10) 9630

11) Volume = $80,000\text{cm}^3$
 $1,000\text{cm}^3 = 1 \text{ Litre}$
 $80,000 \div 1000 = 80 \text{ Litres}$

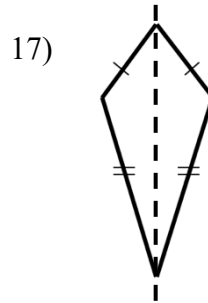
12) $13.6 + 7.9 + 25.4 + 11.1 = 58$
Mean = $58 \div 4 = 14.5$

13) String A = 6.5cm
String B = 4.0cm
Total Length = 10.5cm $\approx 6\text{m}$

14) $6^3 \times 5 = 216 \times 5 = 1,080$

15) $\frac{5}{8} = 15 \text{ Litres}$
 $\therefore \text{Full} = \frac{8}{5} \times \frac{15}{1} = 24$

16) $N \times 4 = ? - 12 = 20$
 $20 + 12 = 32$
 $32 \div 4 = 8$



18) Equilateral Triangle

19) 6 faces, 12 edges and 8 vertices

20) Modal Height = 150cm

SECTION 2

21) $N \times 4 = ? \div 3 = 6 \text{ r } 2$
 $6 \times 3 = 18$
 $18 + 2 = 20$
 $20 \div 4 = 5$
N = 5

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$$\begin{aligned} 32) \text{ Peri. Of Rect.} &= (L + W) \times 2 \\ &= (25\text{cm} + 15\text{cm}) \times 2 \\ &= 40\text{cm} \times 2 = 80\text{cm} \end{aligned}$$

$$\text{Peri. Of Sq.} = 80\text{cm}$$

$$\text{Side} = 80\text{cm} \div 4 = 20\text{cm}$$

$$\text{Area of Sq.} = 20\text{cm} \times 20\text{cm} = 400\text{cm}^2$$

$$\begin{aligned} 33) 3 \text{ notebooks} + 2 \text{ pens} &= \$90 \\ 4 \text{ notebooks} + 2 \text{ pens} &= \$100 \\ \therefore 1 \text{ notebook} &= \$100 - \$90 = \$10 \\ 1 \text{ pen} &= (\$90 - \$30) \div 2 \\ &= \$60 \div 2 = \$30 \end{aligned}$$

$$5 \text{ notebooks} = \$10 \times 5 = \$ 50$$

$$3 \text{ pens} = \$30 \times 3 = \underline{\$ 90}$$

$$\text{Total} = \underline{\$140}$$

Calculate for 1 notebook as shown above
And for 1 pen as shown above. Take the
price of one and multiply it by the amount
needed.

34) Differences

(i) Shape R – All sides are equal/
Shape Q – Adjacent Sides Equal

(ii) Shape R – 2 pairs of parallel sides
Shape Q – no parallel sides.

35) Mean = 65 marks

$$\text{Total} = 65 \times 5 = 325 \text{ marks}$$

$$\text{New Mean} = 65 + 5 = 70$$

$$\text{New Total} = 70 \times 6 = 420 \text{ marks}$$

$$\text{Marks needed} = 420 - 325 = 95 \text{ marks}$$

36) No. of hours parked from 9:23a.m. to

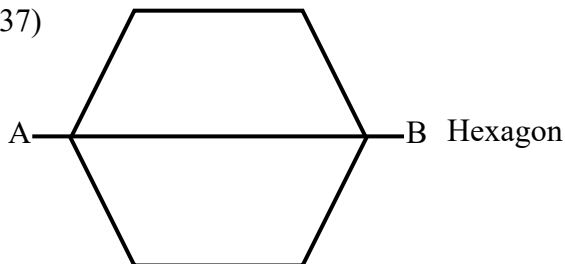
$$1:45\text{p.m.} = 4 \text{ hours } 22 \text{ mins}$$

$$4 \text{ hrs. } 22 \text{ mins.} = 5 \text{ hours payment}$$

$$= 5 \times \$6.50$$

$$= \$32.50$$

37)



$$38) 9 \text{ drawings} \times 5 \text{ cars} = 45 \text{ cars}$$

$$\therefore \text{Ford} = 55 - 45 = 10 \text{ cars}$$

$$10 \text{ cars} \div 5 = 2 \text{ drawings for Ford}$$

$$39) \text{ V.A.T.} = 12\frac{1}{2}\% = \frac{1}{8}$$

$$\therefore \$4,500 \text{ VAT inclusive} = \frac{8}{8} + \frac{1}{8} = \frac{9}{8}$$

$$\text{Dis. Price} = \frac{8}{9} \times \frac{4,500}{1} = \$4,000$$

$$\$4,000 + \$1,000 = \$5,000 \text{ Original Price}$$

40) Isabelle won the prize

$$\text{She sold} = 100 \text{ boxes} - 10 \text{ unsold boxes}$$

$$= 90 \text{ boxes}$$

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SECTION 3

- 41) 2 doz. Sweet pepper = 2×12
= 24 s.p. seedlings
4 doz. Lettuce = 4×12
= 48 lettuce seedlings
Total Cost of S.P. and Lett. = \$120
6 S.P. seedling = \$18
 \therefore 1 S.P. seedling = $\$18 \div 6$
= \$3 per seedling

Original purchase 24 S.P. + 48 lettuce
= \$120

- $(24 \times \$3) + 48$ lettuce = \$120
 $\$72 + 48$ lettuce = \$120
48 lettuce = $\$120 - \72
48 lettuce = \$48
 \therefore 1 lettuce = $\$48 \div 48 = \1

Already Spent = $\$120 + \18
= \$138

Add 12 S.P. = $12 \times \$3 = \36

Add 24 lettuce = $24 \times \$1 = \24
New Total \$198

- 42) Varun – 3 incorrect
 \therefore Corr. = $80 - 3 = \frac{77}{80} \times \frac{100}{1} = 96.25\%$
Jaden – 5 incorrect
 \therefore Corr. = $80 - 5 = \frac{75}{80} \times \frac{100}{1} = 93.75\%$
Omg – 4 incorrect
 \therefore Corr. = $80 - 4 = \frac{76}{80} \times \frac{100}{1} = 95\%$

Varun made a total of 77 correctly
Spelt which is $\frac{77}{80}$ multiply by 100 to
Calculate a percentage of 96.25% so he
Made greater than 95% which qualifies
Him for the next Spelling Bee rounds.

- 43) Area of Floor = $L \times W = 23\text{m} \times 18\text{m}$
= 414m^2
Area of Workstations = $65\text{m}^2 \times 2$
= 130m^2
Area to be tiled = $414\text{m}^2 - 130\text{m}^2$
= 284m^2
Area of tiles to be used = $0.3\text{m} \times 0.3\text{m}$
= 0.09m^2
No. of tiles needed = $3,155\frac{1}{2} = 3,156$ tiles
11 tiles per box
 \therefore No. of boxes = $3,156 \div 11$
= 286 r 10 tiles
= 286 + 1 extra box
= 287 boxes of tiles

- 44) Mean Age = 11 years 1 month
 $\times \quad \quad \quad 5$
55 years 5 months

Nick = 55 yrs. 5 mths. – (11yr. 3mths. +
10yr. 9mths. + 10yr. 7mths. + 11yr.
7mths.)
= 55 yrs. 5 mths. – 44 yrs. 2 mths.
= 11 yrs. 3 mths.

Modal Age = 11yrs. 3 mths.

- 45)
- | | <u>Edges</u> | <u>Faces</u> | <u>Vertices</u> |
|----------------------|--------------|--------------|-----------------|
| Cylinder | 2 | 3 | 0 |
| Sq. Based
Pyramid | 8 | 5 | 5 |
| Triangular
Prism | 9 | 5 | 6 |
| Cuboid | 12 | 6 | 8 |