<u>TEST 10</u>

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 = 8,9305) 8:00 a.m. - <u>:45</u> mins <u>7:15</u> a.m. 6) Mean = 9 $Total = 9 \times 6 = 54$ 54 + 30 = 84New Mean = $84 \div 7 = 12$ 7) \$26.65 8) 803 803 $\Box = 2$ + <u>208</u> -<u>575</u> 575 228 9) $35.10 \div 5 = 7.02$ 10) 9630 11) Volume = 80,000 cm³ $1,000 \text{ cm}^3 = 1 \text{ Litre}$ $80,000 \div 1000 = 80$ Litres 12) 13.6 + 7.9 + 25.4 + 11.1 = 58Mean = $58 \div 4 = 14.5$ 13) String A = 6.5 cm String B = 4.0 cm Total Length = 10.5 cm \approx 6 cm

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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 × 4 = ? - 12 = 20
      20 + 12 = 32
      32 \div 4 = 8
17)
18) Equilateral Triangle
19) 6 faces, 12 edges and 8 vertices
20) Modal Height = 150cm
SECTION 2
21) N \times 4 = ? \div 3 = 6 r 2
     6 \times 3 = 18
     18 + 2 = 20
     20 \div 4 = 5
           N = 5
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22) Frame of Cuboid: 4×15 cm = 60 cm 4×14 cm = 56 cm + 4×22 cm = 88cm Wire Needed = 204cm Frame of Triangular Prism: 2×12 cm = 24 cm 4×9 cm = 36 cm + 3×20 cm = 60 cm Wire Needed = 120cm No. of Rolls Needed = 324cm \div 150cm = 2 r 24 cm \therefore 3 rolls of wire needed 23) Company X = 83 T.V.'s per day Company Y = 67 T.V.'s per day Together Total = 150 T.V.'s per day $3,450 \text{ T.V.'s} \div 150 \text{ T.V.'s} = 23 \text{ days}$ 24) Area of Overlapping = $3 \text{cm} \times 6 \text{cm}$ $= 18 \text{cm}^2$ 25) Shelly's Home School 26) 5 Drinks = $5 \times \$7$ = \$355 Popcorn = $5 \times \$15 = \$75 +$ Already Spent = \$110\$200.00 - \$6.90 = \$193.10 spent on snacks \$193.10 - \$110.00 = \$83.10 still to spend 3 Nacho + Cheese = $9.50 \times 3 = 28.50$ 6 Chocolate Bars = $9.10 \times 6 = 54.60$ \$83.10

27)
$$\frac{2}{3}$$
 distributed
 $\therefore \frac{1}{3}$ left
Lost $= \frac{5}{6} \times \frac{1}{3} = \frac{5}{18}$
Distributed + Lost $= \frac{2}{3} + \frac{5}{18}$
 $= \frac{12}{18} + \frac{5}{18} = \frac{17}{18}$
Left in bag $= \frac{18}{18} - \frac{17}{18} = \frac{1}{18} = 8$ marbles
Total No. of Marbles started with in
bag 18 \times 8 = 144 marbles
28) 16.896 \div 1.2 = 14.08

29) Area of 1 small Sq. = $3 \text{cm} \times 3 \text{cm} = 9 \text{cm}^2$ Shape has 14 Sq. = $14 \times 9 \text{cm}^2$ Area of Shape = 126cm^2

12 168.96

$$30) 6\frac{5}{12}, 2\frac{5}{6}, 1\frac{3}{4}, 3\frac{1}{2}$$

$$\frac{5}{12} + \frac{10}{12} + \frac{9}{12} + \frac{6}{12}$$

$$=\frac{24}{12}$$

$$6\frac{5}{12}, + 2\frac{10}{12}, + 1\frac{9}{12} = 9\frac{24}{12} = 11$$
Ans: $6\frac{5}{12}, 2\frac{5}{6}$ and $1\frac{3}{4}$

31) 6.5kg potatoes @ \$4.50 per kg = \$29.25 $2\frac{1}{2}$ kg tomatoes @ \$12.00 per kg = \$30.00 7.35kg onions @ \$5 per kg = <u>\$36.75</u> Total = \$96.00 $12\frac{1}{2}$ % V.A.T. = <u>\$12.00</u> \$108.00

Change = \$120,00 - \$108.00= \$12.00

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32) Peri. Of Rect. = $(L + W) \times 2$ = $(25cm + 15cm) \times 2$ = $40cm \times 2 = 80cm$ Peri. Of Sq. = 80cmSide = $80cm \div 4 = 20cm$ Area of Sq. = $20cm \times 20cm = 400cm^2$

33) 3 notebooks + 2 pens = \$90 4 notebooks + 2 pens = \$100 \therefore 1 notebook = \$100 - \$90 = \$10 1 pen = (\$90 - \$30) \div 2 = \$60 \div 2 = \$30

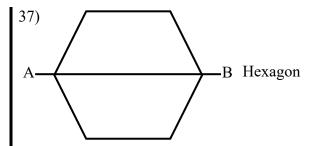
5 notebooks = $$10 \times 5 = 50 3 pens = $$30 \times 3 = 90 Total = \$140

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 Total = 65 \times 5 = 325 marks New Mean = 65 + 5 = 70 New Total = 70 \times 6 = 420 marks Marks needed = 420 - 325 = 95 marks

36) No. of hours parked from 9:23a.m. to 1:45p.m. = 4 hours 22 mins 4 hrs. 22 mins. = 5 hours payment = 5 × \$6.50 = \$32.50



- 38) 9 drawings × 5 cars = 45 cars ∴ Ford = 55 - 45 = 10 cars 10 cars ÷ 5 = 2 drawings for Ford
- 39) V.A.T. = $12\frac{1}{2}\% = \frac{1}{8}$ $\therefore $4,500 \text{ VAT inclusive} = \frac{8}{8} + \frac{1}{8} = \frac{9}{8}$ Dis. Price = $\frac{8}{9} \times \frac{4,500}{1} = $4,000$

\$4,000 + \$1,000 = \$5,000 Original Price

40) Isabelle won the prize She sold = 100 boxes - 10 unsold boxes = 90 boxes

TEST 10

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. = \$1206 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 = 12048 lettuce = 120 - 7248 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 : Corr. = $80 - 3 = \frac{77}{80} \times \frac{100}{1} = 96.25\%$ Jaden - 5 incorrect $\therefore \text{ Corr.} = 80 - 5 = \frac{75}{80} \times \frac{100}{1} = 93.75\%$ Omg-4 incorrect : 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 then 95% which qualifies Him for the next Spelling Bee rounds. 43) Area of Floor = $L \times W = 23m \times 18m$ $=414m^{2}$ Area of Workstations = $65m^2 \times 2$ $= 130m^{2}$ Area to be tiled = $414m^2 - 130m^2$ $= 284 m^2$ Area of tiles to be used = $0.3m \times 0.3m$ $= 0.09 \text{m}^2$ 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 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 = 11 yrs. 3 mths.

45)

<u>Edges</u> <u>Faces</u> <u>Vert</u>	ices
Cylinder 2 3 0	
Sq. Based Pyramid 8 5 5	
Triangular 9 5 6 Prism	
Cuboid 12 6 8	