<u>TEST 13</u>

SECTION 1

1) 403,926 Four Hundred and three thousand, nine Hundred and twenty-six

2) 357 3) $\frac{3}{100} = 0.03$ 4) 3629 -2981648 5) 2.12, 2.10, 2.01, 0.21 6) $6 \times \$100 = \600.00 $3 \times \$20 = \60.00 $5 \times \$5 = \$ 25.00$ $6 \times .25 =$ \$ 1.50 \$686.50 7) $6^3 \div 4 = (6 \times 6 \times 6) \div 4 = 216 \div 4 = 54$ 8) $\frac{5}{7} = 45$ $\therefore \frac{7}{5} \times \frac{45}{1} = 63$ 9) 10 apple pies ÷ 8 = $\frac{10}{1} \div \frac{8}{1}$ = $\frac{10}{1} \times \frac{1}{8} = \frac{10}{8} = 1\frac{2}{8} = 1\frac{1}{4}$ 10) 1031 6 6186 11) Trapezium 12) $4.125 \div 2.50 = 4125g \div 250 = 16\frac{1}{2}$ = 16 completely full bottles

13) Greg – 2mins 45 seconds

14) Cylinder

15) Length = 15cm

$$\therefore W = \frac{1}{3} \times \frac{15}{1} = 5$$
Area of rectangle = $15 \times 5 = 75$ cm²

16) 3-90° angles

17) Mean =
$$(35 + 26 + 42 + 43 + 24 + 40) \div 6$$

= 210 ÷ 6 = 35 runs

$$\begin{array}{r}
8:05 \\
- \frac{7:13}{0:52}
\end{array}$$

Journey from home to school = 52 mins

19)	Transport	Tally	Frequency
	Bus		4
	Taxi	++++	6
	Walk	++++	5
	Private Car	++++	9
			24

Private Car = 24 - (4 + 6 + 5)= 24 - 15 = 9

20) Volume of Cube = $9cm \times 9cm \times 9cm$ = $729cm^3$

SECTION 2

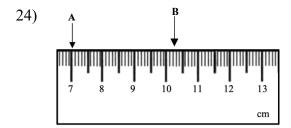
21) Area of Square = 81cm^2 $\therefore 1 \text{ side} = \sqrt{81} = 9 \text{cm}$

> Length of Rect. = $9 \text{cm} \times 2 = 18 \text{cm}$ Width of Rect. = $9 \text{cm} \div 2 = 4.5 \text{cm}$ Perimeter of Rect. = $(18 + 4.5) \times 2$ = $22.5 \times 2 = 45 \text{cm}$

<u>TEST 13</u>

22) Karen = 648 stickers Pam = 648 - 36 = 612 stickers Karen + Pam = 648 + 612 = 1,260 stickers Sue $\frac{2}{3} \times \frac{1,260}{1} = 840$ Total Stickers = 1,260 + 840 = 2,100

23)	Name of Solid	No. of Edges	No. of Flat Faces	No. of Vertices
	Triangular Based Pyramid	6	4	4
	Cuboid	12	6	8
	Triangular Prism	9	5	6

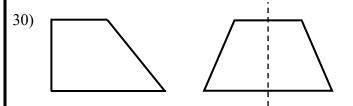


- 25) 9 Boxes = 139.5cm 1 Box = 139.5 ÷ 9 = 15.5cm in height 6 Boxes = 15.5 × 6 = 93cm
- 26) Working backwards -18 + 12 = 30 $30 \times 4 = 120$ $120 \div 8 = 15$ Answer: 15
- 27) Vol. of 1 Cube = $2 \times 2 \times 2 = 8$ cm³ Vol. of Shape = 42 cubes $\times 8 = 336$ cm³

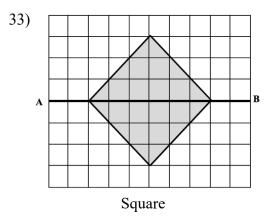
28) Boys = $\frac{2}{5}$ slices Left = $\frac{5}{5} - \frac{2}{5} = \frac{3}{5}$ Girls = $33\frac{1}{3}\% = \frac{1}{3}$ of $\frac{3}{5} = \frac{1}{5}$ Total Eaten by Boys + Girls = $\frac{2}{5} + \frac{1}{5} = \frac{3}{5}$ \therefore Adults = $=\frac{5}{5} - \frac{3}{5} = \frac{3}{5} = 8$ Slices Total No. of Slices = $=\frac{5}{2} \times \frac{8}{1} = 20$ Slices Children at Party = 20 - 8 = 12 children

29)

Item	Cost Per Portion	Quantity	Cost
Fried Rice	\$60.00	2 Portions	\$120.00
Chinese Chicken	\$110.00	$1\frac{1}{4}$ Portions	\$137.50
Chow Mein	\$80.00	$\frac{1}{2}$ Portion	\$40.00
Pepper Shrimp	\$205.00	$\frac{1}{2}$ Portion	\$102.50
		Total	\$400.00
		V.A.T. 12 ¹ / ₂ %	\$50.00
		Total Bill	\$450.00



- 31) Cash Price = \$3,500.00 Hire Purchase = \$500 D/Payment 12 Instal = \$300 × 12 = \$3,600 Total Hire Purchase = \$500 + \$3,600 = \$4,100 Savings = H.P - C.P = \$4,100 - \$3,500 = \$600 She would save \$600 if she bought it at the Cash Price
- 32) Mean = 75 runs Total = 75 × 2 = 150 runs New Mean = 50 \therefore New Total = 50 × 3 = 150 runs 3rd Score Added = 150 - 150 = 0 runs



34) 1 model = 478 sticks 6 models = $478 \times 6 = 2,868$ sticks needed

1 bag = 475 sticks 6 bags = 2,850 sticks bought

2,868 - 2,850 = 18 sticks short

No, John needed to buy 1 more bag of sticks so that the group would have the remaining 18 sticks needed to complete the 6 models

35) Tyler = \$7.00Grandmother = \$8.00 + Total Saved = \$15.00 each time

Amount Saved = \$135.00No. of times saved = $$135 \div 15 = 9$ times

Grandmother's contribution = $\$8 \times 9$ = \$72

36)	

Transport	Tally	Frequency	Total Points
1		<u>9</u>	9
2		2	4
3		10	30
4		4	16
		Total Points	59

Modal Colour Green

37) 1st pair of shoes = \$360 Discount 15% = $\frac{15}{100} \times \frac{360}{1}$ = \$54 off Sale Price = \$320 - \$54 = \$266

> 2nd pair of shows \$400 Discount 20% = $\frac{20}{100} \times \frac{400}{1}$ = \$84 off Sale Price = \$400 - \$80 = \$320

Total Bill less V.A.T. = \$306 + \$320= \$626V.A.T. = $\frac{1}{8} \times \frac{$626}{1} = 78.25 V.A.T. inclusive Bill = \$626 + \$78.25= \$704.25

- 38) Seats In Hall = 540 54% = Unoccupied 100% - 15% = 85% = Occupied People Seated = $\frac{85}{100} \times \frac{540}{1} = 459$ people
- 39) Rajiv = 126 plants Ben = 126 - 32 = 94 plants Mikhail = 94 - 17 = 77 plants Total plants = 126 + 94 + 77 = 297 plants Mean =. 297 ÷ 3 = 99 plants

40) 8, 4, 0 and 3 3,048

SECTION 3

41) \$1 US = \$7 T.T. ∴ US for \$4550 T.T. = \$4550 ÷ 7 = \$650 US

Check Out Tue. 12^{th} Mon. $11^{th} = 100 US Sun. $10^{th} = 150 US Sat. $9^{th} = 150 US Fri. $8^{th} = 150 US Thur. $7^{th} = 100 US Checked in on Thurs. 7th

42) Arrival Time = 12:45 p.m. Time Spent In. Arima = 2hrs. 15mins Departure Time = Hrs. Mins. + 1245 15 2 00 15 15:00 - 12:00 = 3:00 p.m. Journey Home = Time Arrived Home – Departure Time = 5:05 -3:002:05 = 2 hrs. 5 mins. \therefore Journey To Arima = 2hrs 5mins + 25 mins = 2hrs 30mins Departure Time From Home = Arr. Time To Arima – Length of Journey Hrs. Mins. 12 45 -2 30 10 15 a.m. 43) S.I = $\frac{P \times R \times T}{100} = \frac{\$15,000 \times 12 \times 5}{100} = \$9,000$ Amt. To Repay = \$15,000 + \$9,000= \$24,000 5 years = \$24,000 to repay $\therefore 1 \text{ year} = \$24,000 \div 5 = \$4,800$ 36 payments = 3 yrs. \times \$4,800 = \$14,400 paid back Remaining Bal. = \$24,000 - \$14,400 = \$9,600 Pay Off Bal. = \$9,600

(44) Area of Sq. = S × S = 8 × 8 = 64cm²
Tri. S =
$$\frac{1}{4}$$
 Area of Sq.
= $\frac{1}{4} \times \frac{64}{1} = 16cm^2$

Triangle S is an Isosceles Triangle. The lines in the Square that represent 2 sides of Triangle S are part of the 2 diagonal lines of symmetry for the square. This makes triangle S $\frac{1}{4}$ of the square. The area of Triangle S will therefore be $\frac{1}{4}$ the area of the square.

45) Mean = \$80Total = $\$80 \times 4$ weeks = \$320Missing Bar Week 3 = \$320 - (\$80 + \$80 + \$90)= \$320 - \$250 = \$70

Percent Saved in Weeks 3 + 4 = \$70 + \$90= $\frac{\$160}{\$320} \times \frac{100}{1} = 50$