<u>TEST 4</u>

SECTION 1

1) 69, <u>5</u>372 = 5,000

2) 12, 14, 16, 18, 20, 22, 24 = 7 even numbers

 $3)\frac{81}{5} = 16\frac{1}{5}$

4) $\frac{{}^{1}2{}^{1}7.{}^{4}5{}^{1}0}{- \underbrace{\frac{19.28}{8.22}}$

5)
$$88 \div 4 = 28 - 6 = 22$$

6) $9 \times 9 = 81$

$$\square + 9 = 31$$
$$\square = 31 - 9$$
$$\square = 22$$

7)
$$\frac{7}{8} = 49$$

 \therefore All = (49 ÷ 7) × 8 = 56
Or $\frac{8}{7} \times \frac{49}{1} = 56$

- 8) 495 <u>- 161</u> <u>334</u>
- 9) \$82.30 - \$62.05 \$20.25

\$20.00 25c

<u>TEST 4</u>

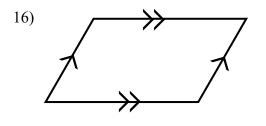
10)
$$5N + 31 = 76$$

 $5N = 76 - 31$
 $5N = 45$
 $5 \times N = 45$
 $N = 45 \div 5$
 $N = 9$
11) $750g \div 3 = 250g$
12) $12:00$
 $\frac{+ 4:40}{16:40}$
13) A
 26
 27
 28
 29
 30
 31
 32
 31
 32

33

14) Triangular Prism

15) Cylinder



17) Height =
$$\frac{Volume}{L \times W} = \frac{800}{40} = 20$$
cm

- 18) $120 \div 20 = 6$ **a** = 6 houses
- 19) Mode = Chocolate
- 20) 152 136 166 +154<u>608</u> \div 4 = 152cm

Mean = 127

SECTION 2

21)
$$4\frac{3}{5} \div 2\frac{3}{10}$$

= $\frac{23}{5} \times \frac{10}{23} = \frac{2}{1} = 2$

22) 475 <u>- 285</u> <u>190</u>

$$\therefore \frac{190}{475} \times \frac{100}{1} = 40\%$$
 not sold

23) Friend =
$$0.3 = \frac{3}{10}$$

Sister $= \frac{2}{5}$
 $\therefore \frac{3}{10} + \frac{2}{5} = \frac{3}{10} + \frac{4}{10} = \frac{7}{10}$ given away
 $\frac{10}{10} - \frac{7}{10} = \frac{3}{10}$ kept

24) N
$$\times$$
 15 = ? + 10 = 70

$$...70 - 10 = 60$$

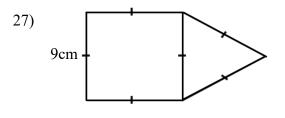
 $60 \div 15 = 4$
 $N = 4$

25)
$$1^{\text{st}} \text{Boy} = 20 + 10/(20) = 50$$

 $2^{\text{nd}} \text{Boy} = 10 / + 20 = 30$
 $3^{\text{rd}} \text{Boy} = 20 = 20$
 100
 -40
 $-60 \div 3 = 20$
 $1^{\text{st}} \text{Boy} = 50$

26) $340 \div 60 = 5$ Shelves ($60 \times 5 = 300$ Tins) 40 Tins left

5 Complete Shelves

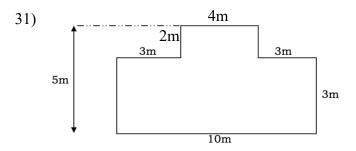


Perimeter of Shape = 5 sides \times 9cm = 45cm

28) 3 – 90° angles

29) Purple – 16 Pink – 11

30) Mean = 70 Total of 6 Test = 70 × 6 = 420 marks 7th Test = 70 marks New Total = 420 + 70 = 490New Mean = $490 \div 7 = 70$

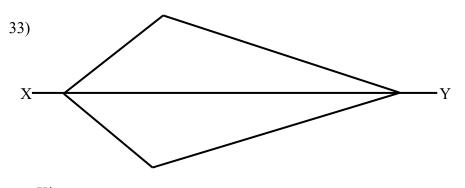


Area of A = $400 \times 200 = 80,000 \text{ cm}^2$ Area of B = $1,000 \times 300 = 300,000 \text{ cm}^2$ Total Area = $380,000 \text{ cm}^2$

Area of Tile = $10 \times 10 = 100 \text{cm}^2$ No. of Tiles = <u>Area of Shape</u> = <u>380,00</u> Area of Tile <u>100</u> = 3,800 Tiles

32) Perimeter of Square Price of Land = 30m × 4 = 120m Space between Poles = 3m ∴ Number of Poles = 120 ÷ 3 = 40 Poles

No, Anna is not correct. When poles are placed around a shape we do not need to add an Extra pole since we will meet the 1st pole placed when we have reached the last space.





34) S.I. = $P \times R \times T$

$$=\frac{\$80,000 \times 10 \times 5}{100}$$

=\frac{4,000,000}{100} = \\$40,000
Total to repay = \\$80,000 + \\$40,000 = \\$120,000
Monthly Installments = \frac{\\$120,000}{60} = \\$2,000

35) Nathan used the method of dividing the \$40 by 2 to calculate $\frac{1}{5}$ of the boy's allowance. He Then multiplied his answer by 5 because $\frac{5}{5}$ represents the boy's full allowance. This was done by finding the reciprocal of the fraction $\frac{2}{5}$ which did the two steps of dividing by 2 and multiplying by 5.

36) (i) Parallelogram

(ii) 2 pairs of parallel sides.4 sides equal

(iii) Kite

37) 200 Bags to Pack
1 Bag = 3 sandwiches + 2 cookies = 5 items per bag
150 sandwiches + 100 cookies = 250 items ÷ 5 items
= 50 bags packed

200 bags - 50 bags = 150 bags to be packed $\therefore \frac{150}{200} \times \frac{100}{1} = 75\% \text{ of bags left to be packed}$

38) Bus $= 10$	100 students - 50 students = 50 students
Taxi = 25 +	Private $Car = 50$ students
$Walk = \underline{15}$	
$Total = \underline{50}$	Mode of Transportation = Private Car

39) Area of Rectangle = $L \times W$ = 9 × 4 = 36cm²

Perimeter of Square = 36 1 side = $36 \div 4 = 9$ cm Area of Square = $9 \times 9 = 81$ cm² Difference in Area of Square and Rectangle = 81cm² - 36cm² = 45cm²

40) Car A = 4 hours 25 mins Car C = 4 hours 25 mins + 20 mins = 4 hours 45 mins Car D = 4 hours 25 mins - 12 mins = 4 hours 13 mins Car B = 4 hours 45 mins - 15 mins - 4 hours 30 mins

First Place: Car D Second Place: Car A Third Place: Car B Fourth Place: Car C

SECTION 3

41) Tim - x Jack - 2x Brian - 4x 7x = \$700 $x = \$700 \div 7 = \100 Tim = x = \$100Jack = $2x = \$100 \times 2 = \200 Brain = $4x = \$100 \times 4 = \400 42) First Discount = 20% $\frac{20}{100} \times \$2000 = \400 off New Price = \$2000 - \$400 = \$1,600Additional Discount = 10% $= \frac{10}{100} \times 1,600 = \160 off Sale Price = \$1,600 - \$160 = \$1,440Plus $12\frac{1}{2}\%$ V.A.T. $= \frac{1}{8} \times \frac{\$1,440}{1} = \$180$

Customer will pay = \$1,440 + \$180= \$1,620.00

<u>TEST 4</u>

43) Perimeter of Rectangle = $(L + W) \times 2$ = $(20 + 16) \times 2$ = $36 \times 2 = 72 \text{ cm}^2$

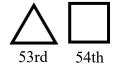
Perimeter of Square = $72 \div 2 = 36$ cm (1 side = $36 \div 4 = 9$ cm)

Area of Rectangle = $L \times W$ = 20cm × 16cm = 320cm²

Area of Square = $S \times S$ = $9 \times 9 = 81 cm^2$

Difference in both shapes = $320 \text{cm}^2 - 81 \text{cm}^2 = 239 \text{cm}^2$

44) 54 \div 4 = 13 complete patterns, then first 2 shapes which will be



45) Mean = 66

 \therefore Total = 66 × 5 = 330 marks

330 - (80 + 55 + 75) = 330 - 120 = 120John and Allan have the same mark = $120 \div 2$ = 60 marks