SECTION 1

1) 6 098 427

2)
$$5^2 = 5 \times 5 = 25$$

$$(3)\frac{7}{20}\times\frac{100}{1}=35\%$$

4)
$$$2,100 \div 35 = $60 \text{ for } 1 \text{ book}$$

5 books = $$60 \times 5 = 300

5)
$$1.44 \div 1.2 = 1.2$$
 12 14.4

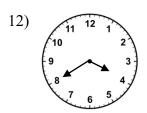
6) 6.057kg = 6057g

7)
$$\frac{\sqrt{36}}{3} = \frac{6}{3} = 2$$

8)
$$8 - \frac{2}{3} = 7\frac{3}{3} - \frac{2}{3} = 7\frac{1}{3}$$

9)
$$316 \times 15 = 4,740$$

10)
$$100 + 50 + 20 + 3 + 0.50c = 173.50$$

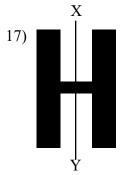


13) 10 m

14)
$$6.4 \times 6 = 38.4$$
cm

15) Rectangular Based Pyramid

16) 39kg



18) Mean = 16
Total =
$$16 \times 5 = 80$$

Missing No. = $80 - (24 + 12 + 7 + 10)$
= $80 - 53 = 27$

19) 1 Rotation = $4-90^{\circ}$ turns 2 Rotations = $4 \times 2 = 8-90^{\circ}$ turns $\frac{1}{2}$ Rotation = $2-90^{\circ}$ turns Total = $8 + 2 = 10-90^{\circ}$ turns

20)
$$36 - (12 + 10 + 3) = 36 - 25 = 11$$

SECTION 2

21) Area of 1 box = $3 \text{cm} \times 3 \text{cm} = 9 \text{cm}^2$ Area of figure = $6 \text{ boxes} \times 9 \text{cm}^2 = 54 \text{cm}^2$

22) Mean = $(15.02+18.25+14.93+20.18+13.07) \div 5$ = $81.35 \div 5 = 16.27$ mins

$$$60 + $40 + $40 = $140$$

 $$200 - $140 = 60
 $$60 \div 3 = 20

$$5 \text{ cans} = 375 \text{g} \times 5 = 1,875 \text{g}$$

 $2 \text{ Flour} = 4575 \text{g} \times 2 = 9,150 \text{g}$
 $3 \text{ Sugar} = 1725 \text{g} \times 3 = 5,175 \text{g}$
 $4 \text{ Total Weight} = 16,200 \text{g} = 16.2 \text{kg}$

25)
$$0.65 + 0.5 = 1.15$$

 $1.15 + 0.6 = 1.75$
 $1.75 + 0.7 = 2.45$
 $2.45 + 0.8 = 3.25$
 $2.25 + 0.9 = 4.15$
 $4.15 + 1.0 = 5.15$

- 26) If the divisor is 16 the largest whole number that can be a remainder is 15. If the remainder is more than 15 we can get another group with 16 in the group.
- 27) Discount = 15%

 Sale Price = $100\% 15\% = 85\% = \frac{85}{100}$ $\frac{85}{100} = $3,825$ $\therefore \text{ Original Price} = \frac{100}{85} \times \frac{3825}{1} = $4,500$

28) Peter =
$$465$$
 marbles
David = $465 - 15 = 450$ marbles
Sue = $450 - 126 = 324$ marbles
Total Marbles = $465 + 450 + 324$
= $1,239$
Equal Amount per child = $1,239 \div 3$
= 413 marbles
Peter = $465-413 = 52$ marbles to give Sue
David = $450-413 = 37$ marbles to give Sue

30) 150 boxes × 10 pencils = 1,500 pencils
Seniors =
$$\frac{2}{5} \times \frac{1,500}{1}$$
 = 600 pencils
Remaining Pencils = 1,500 – 600 pencils
= 900 pencils
Infants = $0.5 = \frac{1}{2} \times \frac{900}{1}$ = 450 pencils
Std. 4 = 60% of pencils = $\frac{60}{100} \times \frac{600}{1}$
= 360 pencils
Std. 4 = 360 ÷ 5 pencils = 72 pupils
Infant Pupils = 72 × 2 = 144
Pencils Needed for Infants = 144 × 5
= 720 pencils
Extra Pencils Needed for Infants
= 720–450 = 270 pencils

31)
$$0.3 + 40\% + \frac{1}{8} = 30\% + 40\% + 12\frac{1}{2}\%$$

= $82\frac{1}{2}\%$

32) Volume filled in Cube =
$$4m \times 4m \times 2m$$

= $32m^3$
Litres = $32m^3 \times 1,000$ Lit. = $32,000$ Litres
Volume filled in Cuboid = $3m \times 7m \times 4m$
= $84m^3$
Litres = $84m^3 \times 1,000$ Lit. = $84,000$ Litres
Diff. In Capacity = $84,000 - 32,000$
= $52,000$ Litres

- 33) Discount = Original Price Sale Price = \$6,900 - \$4,600 = \$2,300
- 34) (i) Equilateral Triangle
 - (ii) Scalene Triangle
 - (iii) Isosceles Right Angled Triangle

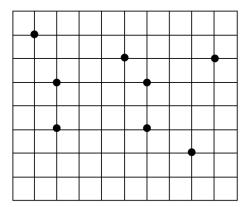
35) S.I. =
$$\frac{Prin. \times Rate \times Time}{100}$$

= $\frac{\$30,000 \times 12 \times 5}{100}$ = $\$18,000$
Total To Repay = $\$30,000 + \$18,000$
= $\$48,000$
Monthly Instal. = $\$48,000 \div 60 = \800
Amount Repaid after 35 months
= $\$800 \times 35 = \$28,000$

- 36) Triangular Prism No. of Edges – 9
- 37) Mathematics = 95% Grammar = 85% Creative Writing = 85% Spelling = $\frac{15}{50} \times \frac{100}{1} = 30\%$

Roger can spend more study time on Revision of his Spelling





39)
$$14 \times \$100$$
 = \$1,400
 $9 \times \$50$ = \$ 450
 $26 \times \$20$ = \$ 520
 $19 \times \$10$ = \$ 190
 $12 \times \$1$ = \$ 12
 $60 \times .25c$ = \$ 15
Total Deposited

40) Mean = 16
Total =
$$16 \times 5 = 80$$

Fourth and Fifth number
= $80 - (18 + 22 + 19) = 80 - 59 = 21$
Fourth and Fifth number = $21 \div 2$
= $10.5, 10.5$

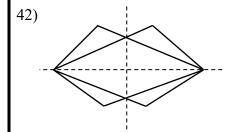
SECTION 3

41) Option A =
$$\frac{\$120,000 \times 8 \times 7}{100}$$
 = $\$67,200$
Total To Repay = $\$120,000 + \$67,200$
= $\$187,200$

Option B =
$$\frac{10}{100} \times \frac{\$120,000}{1} = \$12,000$$

Remaining Balance = $\frac{\$108,000 \times 6 \times 7}{100}$
= $\$45,360$
Total Paid = $\$12,000+\$108,000+\$45,360$
= $\$165,360$

Jerry should choose Option B



43) Peri. Of Shape = $(24cm + 15cm) \times 2$ = 78cm

Unlike finding the Area of the shape, the Distance around the shape will still have The same 2 lengths and the same 2 widths

44) Jack Hammer = \$350 per day Power Drill = \$200 per day Transport = \$250

> Total Bill = \$4,150Power Drill = 3 extra days = $$200 \times 3$ = \$600

Transport + Extra Days for Drill = \$250 + \$600 = \$850

Total Bill – Extra Cost

= \$4,150 - \$850 = \$3,300

Drill plus Hammer per day

= \$350 + \$200 = \$550

 \therefore No. of days Hammer rented

= \$3,300 \div \$550 = 6 days

45) Comprehension = $200 \div 5 = 40$ = $\frac{40}{200} \times \frac{100}{1} = 20\%$ Music + Story = 200 - (20 + 40 + 50)= 200 - 110 = 90 books

Music is 10 more books than Story book

 $\therefore 90 - 10 = 80 \text{ books left}$

 $80 \div 2$ types of books = 40 books

Music = 10 + 40 = 50 books = $\frac{50}{200} \times \frac{100}{1} = 25\%$

Story = $40 \text{ books} = \frac{40}{200} \times \frac{100}{1} = 20\%$