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# Excel for S.E.A. - Vol. 03 Testing Mathematics - Topic by Topic

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Answer Key

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**TEST 1**

- 1) a) 9679  
b) 17, 608  
  
c) 524, 927  
  
d) 3 490, 059
- 2) a) Eight thousand seven hundred and three  
b) Fifty - eight thousand and forty-six  
  
c) Three hundred and five thousand nine hundred and thirty eight  
  
d) Seven million nine hundred and eighty thousand and forty-two
- 3) Four hundred and five thousand nine hundred and sixty-three
- 4) 5000
- 5) Tens of thousand
- 6) 98 763
- 7)  $(7 \times 100\,000) + (6 \times 10\,000) + (5 \times 1000) + (2 \times 100) + (6 \times 10) + (2 \times 1)$
- 8) 500
- 9) 472 593
- 10) 600 000 is made up of 600 thousand and 60 000 is made up of 60 thousand (600 thousand is 10 TIMES greater than 60 thousand)
- 11) 97
- 12) 536 thousand
- 13) 5930
- 14) 5 Thousand
- 15) 40 879
- 16) 2965
- 17) 104 712, 112 543, 121 325
- 18) 7538
- 19) 268
- 20) 600
- 21) 70 000
- 22) \$5.00
- 23) 60 000
- 24) 35/ 542
- 25) 4 in 405 stands for 400 and in 504 the 4 stands for 1
- 26) 5
- 27)

8	1	6
3	5	7
4	9	2

- 28)  $(1 \times 1/10)$
- 29) 5167, 5176, 5671, 5716
- 30) 673 854

**TEST 2**

- 1) 5066
- 2) 5357
- 3) 194/130/7/10
- 4) 8 days
- 5) 3.04
- 6) 73
- 7) 16
- 8) 5688
- 9) 5 and 9
- 10) i)= ii)3
- 11)  $2x-8=20$   
 $2x=20+8$   
 $28 \div 2=14$
- 12) Ian= had 32  
 $76-28=48+32=80$
- 13) 1589
- 14) 2
- 15)  $45-15=30$   
 $30+25=55$
- 16)  $4000 \div 8=500$
- 17) 82
- 18)  $14 \times 2 + \underline{\quad} = 60$   
 $28 + \underline{\quad} = 60$   
 $60 - 28 = 32$
- 19) 6 leaders
- 20)  $18 \times 9 + 6 = 168$
- 21) Shelf/Toys  
1-14  
2-12  
3-13  
4-25
- 22) Fred=45  
Shane=45+15=60  
Ned has  $60 \times 2=120$
- 23)  $21 \times 4= 84$  km
- 24) There are more pet dogs because 75 300 is more than 60 000  
The difference between 75 300 and 60 000 is 15 300  
There is a difference of 15 300 more dogs than parrots
- 25) 9 maxis

**TEST 3**

- 1)  $8 \times 2 = 16$   
 $16 - 3 = 13$  yrs
- 2) 80
- 3)  $6 \times 30 = 180$   
 $372 - 180 = 192$   
 $192 \div 8 = 24$
- 4) 45
- 5)  $500 - 50 = 450$   
 $450 \div 2 = 225$  km
- 6)  $8 \times 20 = 160$   
 $160 - 9 = 151$
- 7)  $28 \div 2 = 19$   
J = 18, B = 20
- 8)  $183 \div 3 = 61$   
Males =  $\frac{2}{3} \times 61 \times 2 = 122$   
Female =  $\frac{1}{3} \times 61 = 61$
- 9)  $8 \times 24 \times 3 = 576$
- 10)  $56 \div 2 = 28$   
 $28 - 12 = 16$   
 $16 + 12 = 28$
- 11) Add 10, 9, 8, 7, 6, 5  
45
- 12) David is correct. When you multiply your answer (the product) will always increase.  
Example  $1 \times 6 = 6$   
 $2 \times 6 = 12$ ,  $3 \times 6 = 18$ . The product will never be less than 6
- 13)  $(4 \times 16 \times 6) = 384$  You can use Commutative Law
- 14)  $17 \times 2 = 34$   
 $34 - 24 = 10$
- 15)  $24 \times 5 = 120$   
 $180 - 120 = 60$   
 $60 \div 4 = 15$
- 16)  $25 \times 36 = 900$   
 $900 \div 9 = 100$
- 17)  $24 \times 18 = 432$   
 $468 - 432 = 36$   
 $36 \div 18 = 2$  rows
- 18)  $12 \times 6 = \$72$
- 19)  $18 \div 3 = 6$   
 $6 \times 2 = 12$  yrs
- 20)  $16 \times 120 = 1920$   
 $1920 \div 24 = 80$

### TEST 4

- 1)  $21+53=74$
- 2)  $84-36=48$
- 3) 1,12, 2,3,4,6
- 4) 2,11, 13, 17, 19
- 5) 6, 18
- 6) 83
- 7) A factor is one of two or more numbers that divides a given number without a remainder.  
A multiple is a number that can be divided by another number a certain number of times without a remainder.
- 8) 498
- 9)  $38 + 9 = 45$
- 10) Reena is correct. 3 is a Prime number
- 11)  $100-30=70$
- 12)  $8 \times 8 = 64 + 2 = 66 \times 4 = 264$   
 $264 \div 4 = 66$
- 13) Molly is correct. 11 is a prime number because it has only 2 factors
- 14) 1,4, 9, 16, 25
- 15)  $6 + 7 = 13$
- 16)  $36 - 14 = 22$
- 17) A 49, B 6, C 25 to fix
- 18) \$30
- 19) 20 to fix
- 20) 16
- 21) 24, 48, 72
- 22) \$4, \$8, \$12
- 23) 336
- 24) 74
- 25) 7, 2, 13, 5

### TEST 5

- 1) 81,243 - x by 3
- 2) 16, 32 - Multiply by 2
- 3) 162, 483 - Multiply by 3
- 4) Multiply by 4
- 5)  $1545 + 515 = 2060$
- 6) Multiply by 2: 12, 48
- 7) Multiply by 3:  $135 \times 3 = 405, 1215$
- 8)  $20 \times 4 = 80, 80 \times 4 = 320 \times 4 = 1280$
- 9) Add 8
- 10) Subtract 7
- 11) Add 15
- 12) Add 1 x by 2
- 13) 24, 22.5, 21 (decrease by 1.5)
- 14) Add 2.2: 8.7
- 15) 25. They are square numbers
- 16) Add  $\frac{1}{6}$
- 17) Add  $\frac{2}{10}$  ans  $1\frac{5}{10}$
- 18) Add  $1\frac{1}{3}$  ans 1 4
- 19) Add 3: ans 24
- 20) Minus 2.50 ans 4.25

- 21) Add  $\frac{1}{4}$  ans  $4\frac{1}{2}$
- 22) Minus \$2.75 ans = \$31.75
- 23) 15 squares
- 24) Add \$2.55 ans = \$27.75
- 25) 9 roses, 40 hibiscus
- 26) After every  $\frac{1}{3}$  skip  $\frac{1}{6}$
- 27)  $64 \times 2 = 128$  /  $128 \times 2 = 256$   
Because  $16 + 8$  is not equal to 32
- 28) Minus 1.5 ans 24.5
- 29) \_\_\_\_

### TEST 6

- 1) Three Hundred and Sixty Five dollars and twenty-five cents.
- 2) \$6049.10
- 3) 38
- 4) 13 - 25cents & 1 - 10 cent
- 5) \$130.00
- 6) No, he is not correct.  $20 \div 5 = \$4$  and  $15.00 \div 3 = \$5$ . So B is cheaper.
- 7) 3 25 cents
- 8) \$72
- 9) \$10.00
- 10) \$29.95
- 11) \$8.50
- 12) \$520.00
- 13) \$5400.00
- 14) \$240.00
- 15) \$295.00
- 16) 10 weeks
- 17) 6 cupcakes
- 18) \$25.00
- 19) Donna is correct. 30 ten cents is equal to 300 cents which is equal to \$3.00 and 8 twenty cents is equal to \$2.00
- 20)  $\$3.50 \times 12 = \$42.00$   
 $\$5.00 \times 12 = \$60.00$   
 $60 - 42 = \$18.00$
- 21) Book \$25.00 - Pencil 12 = \$36.00
- 22) \$78.00
- 23)  $\$70 + \$50 + \$20 + \$48 = \$188$   
 $\$200 - \$188 = 12$
- 24) \$265.00

### TEST 7

- 1) Loss 125
- 2) He made a profit - He bought it for less and sold it for more
- 3) \$23.00
- 4) \$440.00
- 5) No he is not correct. He forgot to minus the cost price from the selling price  $48$  from  $60 = \$12.00$
- 6) \$560.00
- 7) \$60.00
- 8) \$300.00

- 9) \$100.00  
 10) \$175.00  
 11) C.P =48=\$60  
     48-6=42  
     42×\$1.60=\$67.20  
     60-67.20=\$7.20  
     \$7.20  
 12) \$90.00  
 13) \$60  
 14) 24×3.50=\$84  
     24×5.00= \$120  
     120-84=\$36

### TEST 8

- 1)  $\frac{3}{10}$   
 2)  $\frac{11}{4}$   
 3)  $\frac{8}{8} - \frac{5}{8} = \frac{3}{8}$   
 4)  $5\frac{2}{5}$   
 5)  $\frac{11}{8}$   
 6)  $8\frac{3}{8}$   
 7) No they will not be equal because, when the denominators are the same the bigger the numerator the smaller the value of the fraction. Example  $\frac{2}{5}$  means it is like a cake is divided into five pieces and two people are going to get they will get bigger pieces than  $\frac{3}{5}$  means 3 people will be getting so they will get smaller pieces.  
 8) If you reduce  $\frac{3}{6}$  you will get a  $\frac{1}{2}$   
 9) >  
 10) 45  
 11)  $\frac{3}{4}, \frac{7}{12}, \frac{1}{3}$   
 12)  $1\frac{1}{4}$  L  
 13) No, because  $\frac{3}{4}$  is equal to  $\frac{6}{8}$  and  $\frac{4}{8}$  is equal to a  $\frac{1}{2}$ .  
 14)  $\frac{1}{3}$   
 15)  $8\frac{7}{10}$   
 16) Yes he is correct.  $\frac{3 \times 2 = 6}{4 \times 2 = 8}$   
 17) 25  
 18)  $\frac{1}{6}$   
 19)  $5\frac{8}{10}$  Or  $5\frac{4}{5}$   
 20) 147  
 21)  $23\frac{9}{16}$   
 22) 36L  
 23) The top number in a fraction. Shows how many parts we have. (The bottom number is the Denominator and shows how many equal parts the item is divided into.)  
 24) Change all the mixed numbers to improper fraction  
 $\frac{29}{12}, \frac{13}{6}, \frac{23}{12}, - \frac{17}{12}$   
 Find L.C.M which is 12

$$\frac{29}{12}, \frac{26}{12}, \frac{23}{12}, \frac{20}{12}, \frac{17}{12}$$

$$\frac{20}{12} = 1\frac{8}{12}$$

$$\frac{29}{12} - \frac{26}{12} = \frac{3}{12}$$

The difference between each fraction is  $\frac{3}{12}$

25) 40

26)  $\frac{3}{4}$

27)  $\frac{1}{2}$

28)  $3\frac{4}{5}$

### TEST 9

1) 300

2) 150 marks

3) 75

4) 18

5) \$32

6) 150 pages

7)  $\frac{3}{12}$  or  $\frac{1}{4}$

8) Bro \$120.00 Sis \$360.00

9) 60

10)  $\frac{4}{7}$

11) 30 km 750m -  $30\frac{3}{4}$  km

12)  $\frac{5}{8}$

13) \$180.00

14) Ajay gave F  $\frac{1}{5}$

Rem with  $\frac{4}{5}$

Sister gets  $\frac{1}{2}$  of  $\frac{4}{5} = \frac{2}{5}$

Total give away =  $\frac{1}{5} + \frac{2}{5} = \frac{3}{5}$

$$\frac{2}{5} = 60$$

$$\frac{1}{5} = \frac{60}{2} = 30$$

$$30 \times 5 = 150$$

15) Used  $\frac{7}{12}$  Explanation

$$\frac{1}{4} \text{ of } 12 = 3$$

$$\frac{4}{12} \text{ of } 12 = 4$$

$$\frac{12}{12} - \frac{7}{12} = \frac{5}{12}$$

16) Draw 3 circles Divide 1 st in halves and shade half / draw in 3 thirds and shade 3 pieces/ draw in eights and shade 4 pieces. You will see all the parts are equal.

17) Each will get less than 5 muffins. Take 16 and divide by 4  $\frac{16}{4} = 4$



- 18) Total sold  $\frac{2}{5} + \frac{1}{4} = \frac{13}{20}$   
 $\frac{20}{20} - \frac{13}{20} = \frac{7}{20}$   
 $\frac{7}{20} = 14$   
 $\frac{1}{20} = \frac{14}{7} = 2$   
 $\frac{20}{20} = 2 \times 20 = 40$
- 19)  $\frac{3}{4} = 90$   
 $\frac{1}{4} = \frac{90}{3} = 30$   
 $\frac{4}{4} = 30 \times 4 = 120$   
 $\frac{1}{5} = \frac{120}{5} = 24$
- 20)  $12 - 9 = 3$   
 $\frac{3}{12} = \frac{1}{4}$

### TEST 10

- 1)  $\frac{6}{10}$   
 2)  $(9 \times 10) + (2 \times 1) + (4 \times \frac{1}{10}) + (7 \times \frac{1}{100})$   
 3)  $\frac{3}{5} = 0.6$   
 4) i) < ii) <  
 5) 0.8  
 6) (i)  $\frac{1}{4}$  (ii)  $\frac{9}{20}$   
 7) (i) 0.35 (ii) 1.7  
 8) 14  
 9) 7.4
- 10) 1.28 is not one and twenty-eight tenths in word form **because one is one whole and 2 is tenths and 8 is hundredths**
- 11) 0.06, 0.42, 0.6  
 12) 3.4, 2.9, 2.5  
 13) 16.07  
 14) 11.150 kg  
 15) 1.88 litre  
 16) 0.37  
 17) 0.6  
 18) 0.65  
 19) Patty is correct.  $1 + 0.2 = 1.2$  Rea wrote 2 under the one column instead of the tenths column.  
 20) Minus 10 ans -14.94  
 21) 6.9 km  
 22)  $400 \times 12 = 4800$   
 $12 \times 75g = 900$   
 $4800 + 900 =$   
 5.7 kg  
 23) 144  
 24) Maria ran the race the fastest. 5.93 is faster than 5.87 and 5.93

Name	whole	tenths	hundredths
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Answer Key // Excel for S.E.A. Volume 3

Maria	5	9	3
Jan	5	8	7
Ally	5	8	2

25) 10

**TEST 11**

- 1) 20%
- 2) 4%
- 3) 40%
- 4) 0.45
- 5) 85%
- 6) 20%
- 7) 9
- 8)  $70, \frac{4}{5}, 0.8$
- 9) \$24.00
- 10) 80%
- 11) 15%
- 12) He is not correct. He was supposed to put  $\frac{32}{80} \times \frac{100}{1} = 40\%$
- 13) 72
- 14)  $\frac{352}{640} \times \frac{100}{1} = 55\%$
- 15) 60%
- 16) 40% check
- 17) 25%
- 18)  $90\% = 36$   
 $\frac{1}{100} = \frac{36}{90}$   
 $100\% = \frac{36}{90} \times \frac{100}{1} = 40$  questions  
 40 questions
- 19) 324
- 20) 60%

**TEST 12**

- 1) 45%
- 2) 50 apples
- 3) 88%
- 4) \$180.00
- 5) 7g
- 6) 120
- 7) 72
- 8) 30%
- 9) 320 apples
- 10) \$9120
- 11) 30%
- 12) 10 pies
- 13) 72
- 14) 30 mangoes
- 15)  $40\% = 10$   
 $1\% = \frac{10}{40}$   
 $100\% = \frac{10}{40} \times \frac{100}{1} = 25$
- 16) 40
- 17) Mandy =  $\frac{1}{5}$   
 Jenny =  $\frac{5}{12} \times \frac{4}{5} = \frac{1}{3}$

$$\text{Laura} = 1 - \left(\frac{1}{5} + \frac{1}{3}\right) = \frac{8}{15}$$

$$\frac{15}{15} - \frac{8}{15} = \frac{7}{15}$$

Laura – Mandy = 20

$$\frac{7}{15} - \frac{1}{5} = \frac{4}{15} = 20 \text{ tickets}$$

$$\text{Total} = \frac{15}{4} \times 20 = 75 \text{ tickets}$$

- 18) 30%
- 19) \$500

### TEST 13

- 1) \$415
- 2) \$148
- 3) \$200
- 4) \$324
- 5) \$665
- 6) \$4800
- 7) \$1665
- 8) \$3040
- 9) \$7.50
- 10) No, she is not correct. She has to minus the \$72 from \$480. She will have to pay \$408

### TEST 14

- 1) \$360
- 2) \$400
- 3) \$2700
- 4) \$108.54
- 5) \$7200
- 6)  $1\frac{1}{8}$  or  $\frac{9}{8} = \$2250$   
 $\frac{1}{8} = \frac{2250}{9}$   
 $\frac{8}{8} = \frac{2250}{9} \times \frac{8}{1} = \$2000$
- 7) \$1000
- 8) \$3645
- 9) She is incorrect. She subtracted the VAT. She was supposed to add the VAT to the selling price.
- 10) Ties \$20, shirts \$60, V.AT.\$18, Total \$162

### TEST 15

- 1) 3180 oranges
- 2) 321 apples
- 3) 5 dresses = \$450  
 1 dress =  $450 \div 5 = \$90$   
 8 dresses =  $\$90 \times 8 = \$720$
- 4) \$54 = 6kg  
 $\$36 = \frac{6}{54} = \frac{1}{9} \times \frac{36}{1} = 4kg$
- 5) 30 cupcakes = 2 cups flour  
 150 cupcakes =  $\frac{2}{30} \times \frac{150}{1} = 10 \text{ cups of flour}$

- 6) 18 cups of drink=3 packs of Kool Aid  
 60 cups of drinks =  $\frac{3}{18} \times \frac{60}{1} = 10$  cups of Kool Aid
- 7) 63 plums  $\div 7 = 9$  times  
 Pam = 5 plums  $\times 9$  times = 45 plums
- 8)  $\frac{60}{5} = 12$  times more  
 Sheena = 3 hot dogs  $\times 12$  times  
 = 36 hot dogs
- 9)  $8 + 12 = 20$  cupcakes  
 $\frac{240}{20}$  cupcakes = 12 trays  
 12 on each tray
- 10)  $\frac{96}{12}$  loaves = 8  
 5 cakes  $\times 8 = 40$  cakes
- 11)  $\frac{120}{3}$  pages = 40 sets of pages  
 1 set = 2 minutes  
 40 sets =  $2 \times 40 = 80$  minutes
- 12)  $\frac{72}{2} = 9$   
 James 5 paw paws  $\times 9 = 45$   
 45 paw paws
- 13)  $\frac{105}{5} = 21$  times  
 Susan =  $21 \times 8 = 168$  oranges  
 Susan = 168, Roy = 105 = 273 oranges
- 14)  $\frac{120}{5} = 24$   
 Geeta =  $\$8 \times 24 = \$192$
- 15)  $\frac{100 \text{ biscuits}}{5} = 20$   
 2 fruits  $\times 20 = 40$  fruits
- 16) 1 shirt = \$85  
 3 shirts =  $85 \times 3 = \$225$   
 $\$615 - \$225 = \$360$  1 pair of pants  
 $\$360 - 1$  pair of pants
- 17)  $\frac{88}{4} = 22$   
 $22 \times 6$  plants = 132 rose plants
- 18)  $\frac{144}{3} = 48$   
 48 times 2 = 96 kg of beef
- 19)  $\frac{72}{8} = 9$   
 $9 \times 3 = 27$  apples
- 20)  $\frac{65}{5} = 13$   
 $13 \times 3 = 39$  coconuts

### TEST 16

- 1) 26 apples  
 2)  $420 - 86 = 334$   
 $334 \div 2 = 167$   
 Anna -167  
 Betty  $167 + 86 = 253$
- 3)  $\$624 - 160 = 464$   
 $464 \div 2 = 232$   
 Blouse \$232

- Shirt  $\$232 + \$160 = \$392$
- 4)  $\$55 - 15 = 40$   
 $40 \div 2 = 20$   
 Wayne  $15 + 20 = \$35$  / Hakeem  $= \$20$
- 5)  $6 \times 30 = \$1.80$   
 $\$5.96 - \$1.80 = \$4.16$   
 $\$4.16 \div 4 = \$1.04$  for a lollipop  
 $42 - 8 = 34$
- 6)  $6 \times 2 = 12$   
 $37 - 12 = 25 \div 5 = 5$   
 $5 \times 2 = 10 + 12 = 22$   
 $5 \times 3 = 15$   
 (11) 2 -points 5) 3-points = 37
- 7) No, she is not correct. She was supposed to Minus 8 from 46 first which will = 38. Then divide 38 by 2 which will equal 19. Then add  $19 + 8 = 27$ . Ryan will get 27. She will get 19
- 8) Total Litres = 700 litres  
 150L of cherry + 50L of lemon = 200L of Kool Aid  
 Remainder =  $700L - 200L = 500L$  of Kool Aid  
 Share 500L of Kool Aid between grape and strawberry =  $500 \div 2 = 250L$   
 250L of grape  
 250L of strawberry
- 9)  $800 - \$250 = \$550$   
 $550 \div 2 = \$275$   
 Son  $\$275$
- 10)  $4 \times 6 = 24$   
 $114 - 24 = \$90$   
 $\$3 + \$6 = \$9$   
 $90 \div 9 = 10$  of each  
 $10 + 4 = 14$   
 14 bottles
- 11)  $150 - 30 = 120$   
 $120 \div 2 = 60$   
 $\frac{60}{150} \times \frac{100}{1} = 40\%$
- 12)  $34 \div 2 = 17$  years  
 Frank = 17 / Denise =  $8 + 17 = 25$  years
- 13)  $\$75.00 - \$15.50 = \$59.50$   
 $\$59.50 \div 2 = \$29.75$   
 $\$29.75 + \$15.50 = \$45.25$
- 14)  $\$150 - \$30 = \$120$   
 $\frac{130}{2} = \$60$   
 $60 + 30 = \$90$   
 Shania got  $\$90$
- 15) She is not correct. She divided 36 by 2 and get 18. But she was supposed to minus 12 first then divide by 2.  
 $(36 - 12 = 24) \div 2 = 12$ . Then add  $12 + 12 = 24$  Ray will get 24 and Sue will get 12
- 16)  $213 + 249 + 153 = 615 \div 3 = 205$  error in bk  
 Mandy  $213 - 205 = 8$   
 Asha  $= 249 - 205 = 44$   
 $153 + 8 + 44 = 205$
- 17)  $\$660 - \$520 = \$140 = 2$  bats  
 $140 \div 2 = \$70$  for 1 bat
- 18) Total Fruits = 600 fruits

150 pineapples + 200 papayas + 100 watermelons = 450 fruits  
 Remainder = 600 - 450 = 150 fruits  
 Share 150 fruits between oranges and bananas =  $150 \div 2 = 75$   
 75 oranges  
 75 bananas

- 19) Total Flowers = 1000 flowers  
 500 roses + 200 sunflowers + 50 daises = 750 flowers  
 Remainder = 1000 - 750 = 250 flowers  
 Share 250 flowers equally between tulips and hibiscus =  $250 \div 2 = 125$  flowers  
 125 flowers are Tulips  
 125 flowers are Hibiscus
- 20)  $\frac{1}{3} \times 1800.00 = 600$   
 1800-600=1200  
 1200-200=1000  
 1000÷2=500  
 Kathy= \$700/ Kyle \$500

## TEST 17

- 1)  $440-39=401$  hens  
 $401-15=386$  laying hens
- 2)  $4x=28$   
 $28 \div 4=7$   
 $3x=21$  rings  
 $4x=28$   
 $28 \div 4=7$   
 $3x=21$  rings
- 3)  $6x=18$   
 $x=3$   
 $5x=3 \times 5=15$  bracelets
- 4)  $399-39=360$   
 $2x+x=360$   
 $x = \frac{360}{3} = 120$   
 Girls =  $120 + 39 = 159$
- 5) Chris=\$32.50  
 Dave  $\$32.50 + \$9.75 = \$42.25$   
 Allan =  $\$42.25 \times 4 = \$169.00$
- 6)  $9x+x=40$   
 $10x=40$   
 $x=4$   
 $9 \times 4 = 36$  red balloons
- 7)  $12x=156$   
 $\frac{156}{12} = 13$   
 $11 \times 13 = 143$ km
- 8)  $400 \div 25 = 16$  houses
- 9)  $2x+x=80$   
 $4x+x=\frac{80}{5} = 16$   
 $16 \times 4 = \$64$
- 10)  $480+520+380=1380$   
 $1380 \div 3 = 460$

Charlie=480-460=20

Jack= 520-460=60

John=20+60+380=460

- 11) 5 banana trees + 15 banana trees = 20 banana trees  
 500 banana trees ÷ 20 banana trees = 25 rows of 5 & 15 banana trees

- 12)  $X+2y=24$   
 $X+2x=24$   
 $3X= 24 \div 3 =8$

Stephen 16 years

- 13) 0000

1st	2nd	3rd
x	x+2	x+2+6
10	10+2=12	10+2+6=18
$3x+10= 40$		
$x= 30 \div 3=10$		
10m, 12m, 18m		

- 14) Mark has x  
 Anil has  $(\$25+2x)$   
 $25+2x+x=145$   
 $145-25=120$   
 $3x= 120 \div 3=40$   
 $X= \$40$   
 $145-40= \$105$   
 Mark =40/ Anil=105

- 15) 000

Mark	Bill	Tom
x	2x	2+ (2x)
10	10+10=20	10+10+10+10 = 40

Total 7x
$7x=70 \div 7=10$
x=10

- 16) 1,2,3,4,5,6,7,8,9 = 45 Ans 9 days Error in bk

- 17) 0000

Diana	Elana	Betty
x	20+x	x+20+20 =40
<b>80</b>	20+80= <b>100</b>	20+80+40= <b>120</b>

- 18) 0000

Blue	Ivory	Brown
30+x	x	15+ 30+x

Remainder = 150L - (45+30) = 75L

Share 75L among Blue, Ivory, Brown Paint =  $75 \div 3 = 25L$

Brown Paint used = 25L + 45L = 70L of paint



19)  $360+465+225=1050$

$1050 \div 3 = 350$

$360 - 350 = 10$

$465 - 350 = 115$

$10 + 115 = 125$

$125 + 225 = 350$

$115 + 225 = 340$

20)

1st	2nd	3rd	4th
$20+10+x$	$10+x+2$	$x+2$	$x$
33	13km	3km	1km

Remove the extras  $(50-46) = 4$

Divide the remainder by 4  $4 \div 4 = 1$

Ans

1st = 33 km

2nd = 13 km

3rd = 3 km

4th = 1 km

$4x + 46 = 50$
$x \frac{4}{4} = 1$

21) Charlie - 480 cards

Jack - 520 cards

John - 380 card

$480 + 520 + 380 = 1380 \text{ cards} \div 3 = 460 \text{ cards}$

Charlie =  $480 - 460 = 20 \text{ cards}$

Jack =  $520 - 460 = 60 \text{ cards}$

$20 + 60 + 380 = 460 \text{ cards}$

22)  $3x+x=4x$

$\frac{36}{4} = 9$

$9 \times 3 = 27$

Boys -  $\$7.50 \times 27 = \$202.50$

Girls -  $\$6.50 \times 9 = \$58.50$

$\$202.50 + \$58.50 = \$261.00$

23) Total Fishes = 200 fishes

$50 \text{ fishes} + 75 \text{ fishes} + 35 \text{ fishes} = 160 \text{ fishes}$

Remainder =  $200 - 160 = 40 \text{ fishes}$

Share 40 fishes between the 4<sup>th</sup> and 5<sup>th</sup> tank =  $40 \div 2 = 20 \text{ fishes}$  in each tank

24) A Total people = 800 people

$250 \text{ people} + 100 \text{ people} = 350 \text{ people}$

Remainder =  $800 \text{ people} - 350 \text{ people} = 450 \text{ people}$

Share 450 people between bumper cars and circus =  $450 \div 2 = 225 \text{ people}$

225 people in lines for the circus

225 people in line for the bumper cars

25) 00000

1st boy	2nd boy	3rd boy
$4 + 4+x$	$4+x$	$x$
$4+4+8=16$	$4 +8 = 12$	8

Remove extra shares which is 12 ( $4+4+4$ )

Remainder  $36-12=24$

dividing among 3 boys so divide by 3

26) 150-30

$120 \div 3 = 40$  Kenny

S gets  $40+10=50$

J gets  $40+20=60$

27)  $J = 12$

$S = 12+14 = 26$

$P = 26-6 = 20 \div 2 = 10$

$k = 10$

28) 0000000000

Sandy	Sarah	Shenelle
$15+x$	$x$	$15+15 +x$

Remainder =  $120 - (15 + 30) = 75$  flowers

Share 75 flowers among Sandy, Sarah, Shenelle =  $75 \div 3 = 25$  flowers

Ans = Shenelle has  $15 + 15 + 25 = 55$  flowers

29) 000000

Ricky	David	Samuel
$5+x$	$10 +5 x$	$x$

Remainder =  $65 - 20 = 45$  fish

Share 45 fishes among Ricky, David, Samuel =  $45 \div 3 = 15$  fishes

Ans = David has  $15 + 10 + 5 = 30$  fishes

30) 0000

1 st	2 nd	3 rd
$10+5+x$	$5 + x$	$x$

1st =  $10 + 5 + x$  ans = 45

2nd  $5 + x$  ans = 35

3 rd =  $x$  ans = 30

$20 + 3x = 110$

## TEST 18

1)

ITEM	NO. OF ITEMS	COST
Racket	2	\$250
Basketball	2	\$150
Football	4	\$200
Bat	2	\$400

TOTAL	\$1 000.00
-------	------------

2) a) \$155 b) 3

3) Mr. Mahabir's order

Food	No. of Portions	Cost
Fried Rice	1	\$20
Chicken	2	\$80
Vegetables	2	\$50
Total		\$150.00

4) i) \$36 ii) \$3 iii) nuts

5) oranges 20/ plums 10

6) i) 80 ii) times 2, score 20/ times 1, score 50

7)  $7+8=15/20-15=5$

8) a) \$320/ b) 6

9) Drinks =  $8 \times \$10 = \$80.00$

Remainder =  $\$218.00 - \$80.00 = \$138.00$

Answer = Chinese Noodles  $\$18 \times 5 = \$90.00$

Shrimp =  $\$12 \times 4 = \$48.00$

Total =  $\$90 + \$48 + \$80 = \$218.00$

10) Drinks =  $\$10.00 \times 10 = \$100.00$

Remainder:  $\$200 - \$100.00 = \$100.00$

Mango Chow =  $\$8.00 \times 5 = \$40.00$

Pineapple Chow =  $\$15.00 \times 4 = \$60.00$

Total =  $\$100 + \$40 + \$60.00 = \$200.00$

### TEST 19

1) 3 cm

2) 150mm

3) 4.3 km

4) 200 cm

5) 400 cm

6)  $2.3 \times 12 = 507.6$  m

7) 17km 855m

8)  $1.6m + 1.8m = 3.4m$

$3.4 \times 7 = 23.8m$  approximately 24 m

9) 0.65m

10)  $\frac{2}{3}$

11) 8km

12) 2m. when 2m is converted to cm it will be 200cm which is more than 30cm

13) 1.1 km

14) 17.05 km

15) 750m or  $\frac{3}{4}$  km

### TEST 20

1) Grams

2) 4200 g

3) 125 g

4) 6 kg 205 g

5) 375 g

6) 6.05 kg

- 7) 72 kg
- 8) 6.4 kg/6400g
- 9) A 0.85 B has 0.85kg -.140kg =.710kg  
.C has 710 kg +.800kg =1.610 kg  
Total 0.85kg +.710kg +1.610 kg =3.170 kg
- 10) 25kg-13.5 kg=11.5 kg
- 11) No, she is not correct. When you convert 3.6 kg to grams (3.6 ×1000) is equal to 3600 grams. 360 grams is less. To convert a big unit to a small unit you multiply.
- 12) 6000÷125 =48 packets
- 13) 120×60=7200÷5= 1440 bags
- 14) No, she is not correct. 8.4 kg= 8400g. 8400g divided by 50 g is equal to 168 bags
- 15) 5.2 kg -3.4 kg = 1.8 kg orange  
3.2- 1.8= 3.4 kg pawpaw

### TEST 21

- 1) 9250 ml
- 2) 20
- 3) 18 l 689 ml
- 4) 40
- 5) 63.2 litres
- 6)  $\frac{3}{4} = 36.4l$   
 $\frac{1}{4} = \frac{36.9}{3} = 12.3l$   
 $12.3 \times 4 = 49.2l$
- 7) 1.6 litres
- 8) 28 boys
- 9) No, she is not correct. When you convert 5.4 l to ml it will equal 5400 ml which is more than 540ml
- 10) 2600 ml
- 11) 6÷4 =1.5 litres
- 12) 4600÷200= 23 cups
- 13)  $\frac{80}{100} \times \frac{475}{1} = 380 ml$
- 14)  $(90 m + 35 m) \times 2 = 250 m$   
2000÷250= 8 times
- 15) 30 × 4 =120 ml×5=600 ml  
850-600 =250 ml
- 16)  $\frac{6000}{250} = 24 days$
- 17) 175×4=700ml  
4000-700 = 3300 ml
- 18) 24

### TEST 22

- 1) 20 minutes to 9/8:40
- 2) 3 hrs 50 mins
- 3) 2 hrs 15 mins
- 4) 9:30 a.m.
- 5) Long hand on 3/ short hand between 4 and 5
- 6) 28 mins
- 7) i) 1615/ ii)9:20
- 8) 9:30 a.m.

- 9) \$400.00
- 10) \$1687.50
- 11) 40 mins
- 12) Neal
- 13) i)  $9 \text{ hrs} \times \$30.75 = \$276.75$   
 ii)  $\frac{191.25}{38.25} = 5 \text{ hrs}$
- 14) 7:50 am
- 15) \$40
- 16)  $7 \frac{1}{2} \text{ hrs}$
- 17) No, she is not correct. When you divide 90 by 60, you will get 1 hr and 30 mins which is longer than 1hr and 25 mins
- 18) 1:50 p.m.

### TEST 23

- 1) \$60
- 2) \$204
- 3) No, he is wrong. When you divide \$750 by 5, you will get \$150 per day.
- 4) \$84
- 5) i) 7 hrs ii) 9:30 p.m.
- 6)  $\frac{225.00}{45.00} = 5 \text{ days}$
- 7) \$1000
- 8) Reggie-\$240  
 Harry- 10 days  
 Tina -\$320 per day
- 9) 8 pm to 4 pm =8hrs  
 $\$24.50 \times 8 = \$196.00$
- 10) i) 8 hrs ii)  $180 \times 8 = \$1440.00 \times 5 = \$7200.00$
- 11) i) 7 to 5= 10 hrs  
 $\$180 \times 10 = \$1800$   
 ii)  $180 \times 5 = \$900 \times 4 \text{ weeks or } 1 \text{ month} = \$3600.00$
- 12) Cathy
- 13) 5 hrs-  $\$875 \times 5 = \$4375.00$
- 14) Reg=  $8 \times 20 = \$160$   
 Overtime rate = \$30.00 an hour  
 Extra hrs =6  
 $30 \times 6 = \$180 + 160 = \$340.00$
- 15) Normal day =  $100 \times 5 \text{ days} = \$500$   
 Overtime =  $575 - 500 = \$75$   
 Hrs =  $\frac{75}{15} = 5 \text{ hours}$

### TEST 24

- 1) \$360.00
- 2) No, he is not correct. He will have to pay back \$5500.00. He will have to pay back. He forgot to add the (\$500) interest
- 3)  $500 \times \frac{5}{100} \times \frac{1}{2} = \$12.50$
- 4) \$1200.00


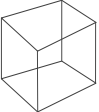
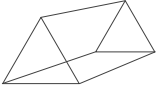
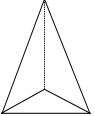
- 5) \$6200.00
- 6) \$1400.00
- 7)  $6000 \times \frac{8}{100} \times \frac{2}{1} = \$960$   
 $6000+960 = 6960 \div 24 = \$290.00$
- 8) \$750.00
- 9)  $\frac{16000}{100} \times \frac{5}{2} \times \frac{5}{1} = \$2000$   
 $\$16000+\$2000 = \$18000$   
 $18000 \div 30 = \$600.00$
- 10) \$600.00

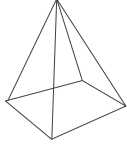
**TEST 25**

- 1) 1. Rectangular based pyramid
- 2. Cone
- 3. Triangular based pyramid
- 4. Rectangular based prism
- 5. Cuboid
- 6. Square based pyramid

Properties	Name of Shapes
Only two pairs of parallel sides	rhombus
Has a uniform cross section	cylinder
Has four right angles	rectangle,
Has 2 lines of symmetry	trapezium

2)

Solid Shapes	No. of Vertices	No. of faces	No. of Edges
Cone 	1	2	1
Cube 	8	6	12
Triangular prism 	6	5	9
Triangular based pyramid 	4	4	6

Square based pyramid		5	5	8
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- 3)
- 4) B
- 5) Hexagon, pentagon, quadrilateral
- 6) 2
- 7) Square based pyramid
- 8) \_\_\_\_\_

### TEST 26

- 1) Obtuse, acute, right angled
- 2) i) right angled triangle, ii) B, iii) rectangle
- 3) When two lines meet, they formed an angle
- 4) rhombus
- 5) triangle
- 6) i) obtuse angle ii)  $30 \times 4 = 120^\circ$
- 7) i)  $\frac{1}{2}$  turn ii)  $135^\circ$
- 8) Square, rectangle
- 9) Smaller than
- 10) No, she is not correct. The shape has 3 obtuse angles and 2 right angles
- 11) No, she is not correct. When two lines meet, they form a vertex. In an angle where the 2 lines meet, there is only one vertex.
- 12) GH
- 13) No, he is not correct. An obtuse angle has more than  $90^\circ$  but less than  $180^\circ$
- 14)  $180 - 45 = 225^\circ$
- 15) Angle A is an obtuse angle. It has more than  $90^\circ$  but less than  $180^\circ$  whereas angle B is less than  $90^\circ$
- 16) First shape reflex angle
- 17)  $60^\circ$

### TEST 27

- 1) scalene
- 2) 25 cm
- 3) 16 cm
- 4) 28.8 cm
- 5)  $40 - 6 = 40$   
 $40 \div 2 = 20$  cm
- 6)  $83 - 15 = 68 \div 2 = 34$  cm
- 7)  $308 - 136 = 172 \div 2 = 86$  cm
- 8) They are alike because they have 3 sides and they equal  $180^\circ$ . They are different because all the sides in an equal triangle are equal whereas in a scalene triangle all the sides are unequal.

### TEST 28

- 1) No, she is wrong. She found the area of a square.  $S \times S = 25 \text{ cm}^2$ . She should have taken 5 cm and  $\times$  by 4 = 24 cm
- 2)  $\frac{128}{8} = 16 \text{ cm}$
- 3)  $(L 10 + B 9) = 19 \text{ m}$   
 $19 \times 2 = 38 \text{ m}$

- 4) First take the perimeter 28 and divide by 2 which equal 14. 14 is made up of a length and breadth. After subtract the length (10 m) from 14. You will get 4 which will be the breadth. Or you take  $\frac{P}{2} - length$
- 5)  $40 \div 4 = 10$  cm
- 6) Square root of 49 = 7 cm  
 $P = S (7) \times 4 = 28$  cm
- 7)  $\frac{210}{5} = 42 + 1 = 43$  posts
- 8)  $20 \times 4 = 80$  posts
- 9) 22 cm
- 10)  $15 + 24 + 4 + 5 + 20 + 10 = 78$  cm
- 11) 1 st =  $S \times 4 = 42 \times 4 = 168$  cm  
 2 nd =  $(60 + 36) \times 2 = 192$  cm  
 3 rd =  $(84 + 24) \times 2 = 216$  cm  
 $168 + 192 + 216 = 576$  cm
- 12) Cayman is wrong. Kenrick's shape =  $10 \times 8 = 80$  cm and Cayman's shape =  $8 \times 8 = 64$  cm
- 13)  $12 \times 4 = 48$  cm  
 $48 \times \$5.00 = \$240.00$
- 14)  $45 - 33 = 12$  cm
- 15) i)  $14 \times 5 = 70$  m ii)  $\frac{1400}{20} \times \frac{1400}{20} = 4900$  tiles
- 16) Aden found the area of the square.  $S \times S (8) = 64$  cm<sup>2</sup>.  
 Mike is correct Perimeter of square is  $S (8) \times 4 = 32$
- 17) No, he is not correct. He found the area not the perimeter of the shape. Perimeter is the distance around the shape.
- 18) Veg =  $6 + 3 = 9 \times 2 = 18$  / fl beds  $3 + 1 = 4 \times 2 = 8$  / 2 beds  $8 \times 2 = 16$   $16 + 18 = 34$
- 19) Master room =  $25 + 15 = 40 \times 2 = 80$  m  
 Son's room  $(15 + 10) = 25 \times 2 = 50$  m  
 Daughters = 50 m  
 $180 \text{ m} \times \$1.50 = \$270.00$
- 20)  $P = 252$  m  
 $\frac{252}{12} = 21 + 1 = 22$
- 21)  $(0.25 + 0.75) \times 2 = 2$  km

## TEST 29

- 1) 162 m<sup>2</sup>
- 2)  $12 \times 6 = 72$  m<sup>2</sup>
- 3) She is not correct. Area of a square is  $S \times S (15 \times 15) = 225$  m<sup>2</sup> She found the perimeter of the square which is  $S \times 4$   
 $14 \times 5 = 60$
- 4) She said Area of rectangle =  $L \times B$ . What  $\times 5 = 60$  ( $12 \times 5 = 60$ ) OR we can say  $60 \div 5 = 12$
- 5)  $25 \times 4 = 100$   
 Square root of 100 = 10
- 6)  $4.8 \times 2 = 9.6$  cm<sup>2</sup>
- 7)  $L \times B$   
 $12 \times 3 = 36$  cm<sup>2</sup>
- 8)  $\frac{12}{5} \times \frac{5}{4} = \frac{60}{20} = 3$  beds
- 9)  $15 \times 6 = 90$  cm<sup>2</sup>
- 10)  $28 \times 9 = 252$   
 $\frac{252}{2} = 126$  cm<sup>2</sup>
- 11) Area of room =  $12 \times 4 = 48$



$$\text{Area of rug} = \frac{3}{4} \text{ of } \frac{48}{1} = 36$$

$$\text{Area not covered} = 48 - 36 = 12$$

12) Area of garden =  $15 \times 8 = 120$

$$\text{Area of Path} = 17 \times 10 = 70$$

$$\text{Area of path} = 120 - 70 = 50 \text{ m}^2$$

13) A square has 4 equal sides. To find the perimeter you add S+S+S+S OR  $S \times 4$ . To find the perimeter you add (length + breadth  $\times$  by 2) or you add L+B+L+B OR  $(2L+2B)$

14)  $14 \times 8 = 112$

$$9 \times 4 = 36$$

$$36 + 112 = 148$$

$$\frac{148}{20} \times \frac{100}{20} \times \frac{100}{1} = 3700$$

15) square of 196=14

$$14 \times 5 = 56 \text{ cm}$$

16)  $P = (100+60) \times 2 = 320\text{m}$

$$1000\text{m} = 1 \text{ km}$$

$$1.6 \text{ km} = 1600 \text{ m}$$

$$\text{No of times } \frac{1600}{320} = 5 \text{ times}$$

17) Area of floor =  $6\text{m} \times 5\text{m} = 24 \text{ m}$

$$= 30 \text{ 0000 cm}^2$$

$$\text{Area of tile } 20 \text{ cm} \times 15 \text{ cm}$$

$$300 \text{ cm}^2$$

$$30 \text{ 0000} \div 300 = 1000$$

$$1 \text{ box} = 25 \text{ tiles}$$

$$\frac{1000}{25} = 40 \text{ boxes}$$

$$40 \times \$2.50 = \$10 \text{ 000.00}$$

18)  $A = 12 \times 3 = 36$

$$B = 15 \times 4 = 60$$

$$36+60 = 96 \text{ cm}^2$$

19)  $16 \times 8 = 128 \text{ cm}^2$

$$\frac{128}{4} = 32 \text{ cm}^2$$

20) Area of room =  $6 \text{ m} \times 5\text{m} = 30\text{m}^2$

$$\text{Area of rug} = 4 \text{ m} \times 3\text{m} = 12\text{m}^2$$

$$\text{Uncovered floor} = 30-12 = 18\text{m}^2$$

21) Perimeter of Pool =  $(20+14) \times 2$

$$34 \times 2 = 68 \times 2 = 136 \text{ m}$$

$$P = 136 - b \ 60 = 76$$

$$L = \frac{76}{2} = 38$$

22) Area of 2 pools =  $3.5\text{m} \times (8-0.4)$

$$= 3.5 \times 7.6 = 26.6 \text{ m}^2$$

$$64 - 26.6 = 37.4 \text{ m}^2$$

### TEST 30

1)  $6 \times 4 \times 5 = 120 \text{ cm}^3$

2)  $5 \times 5 \times 5 = 125 \text{ cm}^3$

- 3)  $24\ 000\text{ cm}^3$
- 4)  $20 \times 40 \times 30 = 24\ 000\text{ cm}^3$   
 $= \frac{3}{4}$  of  $24\ 000 = 18l$
- 5)  $50 \times 30 \times 40 = 60\ 000\text{ cm}^3$   
 $60\ 000 \div 250 = 240$  cups
- 6)  $\frac{20}{5} \times \frac{20}{5} \times \frac{20}{5} = \frac{8000}{125} = 64$  pieces
- 7)  $30 \times 10 \times 5 = 1500\text{ m}^3$
- 8)  $\frac{600}{12} \times \frac{400}{10} \times \frac{200}{20} = 20\ 000$  blocks
- 9)  $\frac{10}{4} \times \frac{24}{4} \times \frac{12}{4} = 45$  cubes
- 10)  $8 \times 6 = 48$  faces
- 11)  $\frac{30}{5} \times \frac{20}{4} \times \frac{20}{4} = 150$  pieces
- 12) 12 cubes
- 13) 5 cm
- 14)  $2 \times 2 \times 2 = 8 \times 27 = 216\text{ cm}^3$

### TEST 31 - TO FIX

- 1) X
- 2) X
- 3) X
- 4) X
- 5) x
- 6) X
- 7) X
- 8) X
- 9) X
- 10) X
- 11) X
- 12) X

### TEST 32


- 1)  $45 \div 5 = 9$
- 2)  $30 + 20 = \frac{50}{2} = 25$   
 $25 \times 2 = 50 - 23 = 27$
- 3) 40
- 4) Total score divided by amount of test.  $\frac{612}{6} = 102$
- 5)  $42 \times 7 = 294$
- 6)  $60 + 84 + 16 = 160$   
 $50 \times 4 = 200$   
 $200 - 160 = 40$
- 7)  $120 \times 3 = 360$   
 $360 + 60 = 420 \div 4 = 105$
- 8)  $80 + 75 + 86 + 90 = 331$   
 $84 \times 5 = 420$   
 $420 - 331 = 89$
- 9)  $4 \times 56 = 224$   
 $224 - 180 = 44$

- 10)  $12 \times 3 = 36 + 8 = 44 \div 4 + 11$   
 11) i)  $40 + 32 + 86 + 90 = 248 \div 4 = 62$   
 ii)  $64 \times 5 = 320$   
 $320 - 248 = 72$   
 12) i) 56  
 ii)  $270 \div 5 = 54$   
 $60 \times 6 = 360 - 270 = 90$

### TEST 33

- 1) III III III III-I  
 2) 29  
 3)  $16 - 9 = 7$   
 4) III III (8)  
 5) i) III III  
 ii) chocolate  
 iii) 32

### TEST 34

- 1) i)  $20 \times 4 = 80$   
 ii)  $80 - 60 = 20$   
 iii)  $\frac{60}{200} \times 100 = 30\%$   
 2)  $12 \times 4 = 48 + 2 = 50$   
 $60 - 50 = 10$   
  
 3) Draw 5 students  
 4) i)  $\frac{20}{80} \times \frac{100}{1} = 25\%$   
 ii) It was something that most children like to eat. They had a special offered  
 5)  $13 \times 4 = 52$  ( $2 \times 2 = 4$ )  
 $52 + 4 = 56 \div 2 = 18$   
 Game 2 = 18  
 6) 2 chocolates

### TEST 35

- 1) i)  $18 + 28 + 18 + 16 = 80$   
 $\frac{16}{80} \times \frac{100}{1} = 20\%$   
 ii) It provides vitamins and minerals which gives you healthy skin  
 2) i) –  
 ii) total points =  $10 + 20 + 20 + 12 + 8 = 70$   
 score for 6 games =  $16 \times 6 = 96$   
 $96 - 70 = 26$   
 3) i) No, Mode means the most popular or greater frequency. Hockey was the least popular  
 ii) People should have hobbies because it is a form of relaxation and exercise. It helps you to destress  
 4) Total 100  
 i)  $\frac{40}{100} \times \frac{10}{1} = 40\%$   
 ii) Pets provide companionship for people. It helps children to develop a sense of responsibility.

5) Total =80

i)  $\frac{80}{5} = 16$

ii)  $\frac{20}{80} \times \frac{100}{1} = 25\%$

iii)  $\frac{20}{10} = 2 \text{ packs}$

2 x3 6 packs

iv) When the sea becomes polluted, marine life is destroyed which in turn affects the ecosystem that would eventually impact on food supply obtained from the ocean.