
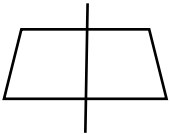
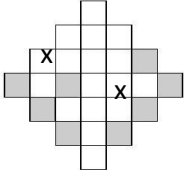


# SUCCESS! PRACTICE BOOKLET

## TEST 1 MATHEMATICS

1.2 140 022	2. 32900,32555,23675, 23098	3. 81	4. tens of thousand
5. $7\frac{3}{5}$	6. 72.9	7. $\frac{2}{3} \times 90 = \$60$	8. $5 \div 100 = 0.05$
9. 61 (subtract 8)	10. $8 \times 6 = 48$ $48 \times \$20.50 = \$984$	11. 5cm	12. 37minutes
13. $64 - 36 = 28$ blocks to erase	14. $20000 \div 750 = 26$ completely filled packets	15. 3	16. cube and cuboid
17. S	18. $108 \times 3 = 324$ $34 + 45 = 79$ $324 - 79 = 245$	19. Tally and frequency for 10	20. 1 picture = 7balls $7 \times 5 = 35$ for football
21. $\frac{1}{3} \times 45 = 15$  = 100	22. $\frac{10}{100} \times 955 = \$95.50$ $\$955 - \$95.50 = \$859.50$	23. $\frac{1}{3} = \frac{2}{6}$ Shade two blocks. Make equivalent fractions by multiplying the numerator and denominator by 2	24. SI = $\frac{80000 \times 12.5 \times 3.5}{100}$ = \$35000 Amount = $\$80000 + \$35000$ = \$115000
25. Add the two fractions and divide by 2 to find the fraction midway. $\frac{1}{4} + \frac{3}{8} = \frac{5}{8}$ $\frac{5}{8} \div 2 = \frac{5}{16}$	26. $300 - 78 = 222$ $222 \div 3 = 74$ Red = $74 \times 2 = 148$	27. $34 \text{ cupcakes} \times \$12 = \$408$ $\$1788 - \$408 = \$1380$ $\$1380 \div 20 = 69$ Cupcakes = $34 + 69 = 103$	28. VAT = $\frac{1}{8} \times \$700 = \$87.50$ Total = $\$700 + \$87.50 = \$787.50$
29. Factors of 28: 1, 2, 4, 7, 14, 28 Factors of 42: 1, 2, 3, 6, 7, 14, 21, 42 There would be 14 teams. Girls: $28 \div 14 = 2$ Boys: $42 \div 14 = 3$ There would be 2 girls and 3 boys on each team	30. Perimeter of rectangle = 36cm Draw a square with a side of 9cm.	31. (a) $60\text{cm} \times 30\text{cm} \times 20\text{cm} = 36000\text{cm}^3$ $\frac{2}{3} \times 36000\text{cm}^3 = 24000\text{cm}^3$ (b) $36000 - 24000 = 12000\text{cm}^3 = 12\text{litres}$	32. (a) $30 + 20 = 50$ minutes $50 \times 4 = 200$ mins = 3hrs 20min (b) 6:50 p.m.
33. Shade a trapezium 	34. Shade x below 	35. Total = $90 + 85 + 63 + 92 = 330$ 5 tests = $90 \times 5 = 450$ Must score = $450 - 330 = 120$	36. Total calls = 64 3 <sup>rd</sup> hour = 20 calls Percentage = $\frac{20}{64} \times 100 = 31.25\%$
37. $1D + 1L + 1M = \$203$ $1D + 1L + 2M = \$226$ $1M = \$226 - \$203 = \$23$ $1D + 1L + 1M = \$203$ $\$203 - \$23 = \$180$ $\$180 \div 3 = \$60$ Dart = $\$60 \times 2 = \$120$	38. 1 portion $L = 50\text{m} - 5\text{m} = 45\text{m}$ $45 \div 2 = 22.5\text{m}$ $B = 35\text{m} - 5\text{m} = 30\text{m}$ $30 \div 2 = 15\text{m}$ Area = $22.5\text{m} \times 15\text{m} = 337.5$ 4 portions = $337.5 \times 4 = 1350\text{m}^2$	39. 5, 9, 13, 17, 21  Increasing pattern starting from 5 matchsticks and adding 4 for each pattern	40. a) Total present = $48 + 60 + 54 + 42 + 66 + 54 = 324$ secs (b) $66 - 42 = 24$ secs

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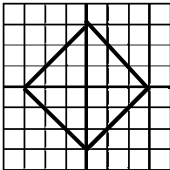
### TEST 2 MATHEMATICS

1. Twenty-five thousand, one hundred and four dollars and five cents	2. 46	3. 8	4. $\frac{48}{5}$
5. $64-3=61$	6. 204	7. 40 000	8. 12 textbooks
9. 15 limes	10. $\frac{17}{20}$	11. Thursday 11 <sup>th</sup> August	12. 4 packets flour and 2 packets rice/any other suitable combination
13. $16-7=9$ $16-11=5$ $9+5=14$ cubes	14. 7cm	15. $8+6=14$	16. equilateral triangle
17. South West	18. 82	19. 39	20. Tally and frequency for 7
21. $2783+5326=8109$	22. $0.65 \times 12 = 7.8$ m	23. $24 = 2$ dozen $\$960 \times 2 = \$1920$ (CP) $24 \div 2 = 12$ sets $12 \times \$210 = \$2520$ (SP) Profit = $2520 - 1920 = \$600$	24. $A = 480$ $B = 3 \frac{1}{4} \times 480 = 1560$ $C = 1560 \times 2 = 3120$ Total = $480 + 1560 + 3120 = 5160$
25. VAT = $\frac{1}{8} \times 620 = \$77.50$ Total = $\$620 + \$77.50 = \$697.50$	26. $40 \times \$28 = \$1120$ $1 \frac{1}{2} \times \$28 = \$42$ $\$42 \times 6 = \$252$ Total = $\$1120 + \$252 = \$1372$	27. 50, 2, 5	28. 5, 8, 11, 14, 17, 20, 23, 26, 29 29 blocks  Increasing pattern adding 3 blocks starting from 5.
29. $26 \text{km} \times 2 = 52 \text{km}$ $52 \times 1000 = 52000 \text{m}$	30. Sachin is incorrect. The melon is on the scale measuring in kg. 1 kg equals 1000g which is heavier than the pineapple which is 600g.	31. Draw a rectangle $6 \text{cm} \times 4 \text{cm}$ , $12 \text{cm} \times 2 \text{cm}$ or $8 \text{cm} \times 3 \text{cm}$	32. $1:45 \text{p.m.} + 8 \text{hrs } 25 \text{mins} = 10:10 \text{p.m.}$
33. 16 letters A B C D E F G H I J K L M N O P Q R S T U V W X Y Z	34. parallelogram, trapezium	35. $360 \div 12 \text{blocks} = 30$ 1 block = 30 points 4 blocks = $30 \times 4 = 120$ points	36. $1+24+17+24+22=101$ $21 \times 6 = 126$ $126-101=25$
37. Total = 1180 Adults = 75% = 885 Children = 25% = 295 $885 \div 3 = 295$	38. $75.6 \times 1000 = 756000 \text{cm}^3$ Width = $\frac{756000}{60 \times 42} = 30 \text{cm}$	39. equilateral, isosceles, right-angle triangle, scalene	40. (a) $80 \times 3 = 240$ $74 + 85 = 159$ $240 - 159 = 81$  (b) $211 - 91 = 120$

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Men=295x2=590 Boys = $\frac{4}{5} \times 295 = 236$ Males=590+236=826	756000÷3000=252fishes		120÷4 = 30 Language=30x3=90 Science =30
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**TEST 3 MATHEMATICS**

1. 60 000	2. 80 400.05	3. 60	4. 1500
5. 39	6. 0.3	7. $\frac{1}{3}$	8. \$24
9. \$1250+ \$300 =\$1550	10. $\frac{1}{8} \times 32 = 4$ bundles	11. 2hrs=2x60=120mins $\frac{3}{5} \times 60 = 36$ mins 120+36= 156mins	12. 750÷250=3glasses
13. $\frac{5000}{500} = 10$	14. 2x2x2=8cm <sup>3</sup> 8cm <sup>3</sup> x 4 = 32cm <sup>3</sup>	15. Draw an equilateral triangle	16. cylinder
17. b	18. 4	19. Chocolate	20. Plant 5
21. $\frac{5}{8} = 15$  $\frac{8}{5} \times 15 = 24$ teachers	22. $\frac{3}{8} \times 96 = 36$ 96-36=60 $60 \div \frac{3}{4} = 80$	23. Apples=0.3x720=216 Rem.=720-216=504 Pears=0.75x504=378 216+378=594 720-594=126	24. SI= $\frac{120000 \times 2.5 \times 12.5}{100}$ =\$37 500 Amount=120 000+35000 =\$157 500
25. Susan did not see the flashlight. Brian will see the lights at 9:08,9:16,9:24,9:32, 9:40,9:48,9:56,10:04  Susan arrived at the 9:57 at the window plus 5 seconds =10:02 The light will flash at 10:04 not 10:02	26. 2B+3S+5P =\$6450 5B+6S+8P =\$12150  3B+3S+3P=\$12150-\$6450 =\$5700 1B+1S+1P =\$5700÷3 =\$1900	27. shirts=\$50x7=\$350 \$1125-\$350=\$775 \$50+\$105=\$155 \$775÷\$155= 5 Shirts=5+7 =12	28. Figure 5=27 dots (add 5 more dots for each pattern) Figure 8 = 42
29. Area of rectangle A=5cmx3cm=15cm <sup>2</sup> Area of B=3cmx3cm=9cm <sup>2</sup> The area of A is not twice the area of B. Keith is not correct.	30. 3:45 + 1:32 =5:17p.m.	31. Height = $\frac{520}{8 \times 13} = 5$ cm  No.of cubes= $\frac{520}{8}=65$	32. 5600 – 3450= 2150 = 2.15km
33. Scalene triangle. Three sides unequal, three angles unequal	34. 	35. 16+12+23=51 51÷3=17 17x2=34 34-12=22	36. 8+18+10+14=50 $\frac{18}{50} \times 100 = 36\%$ 50

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<p>37.</p> $\text{Kept} = \frac{1}{3} \times 90 = 30$ $\text{Rem.} = 90 - 30 = 60$ $\text{Keon} = \frac{1}{4} \times 60 = 15$ $30 + 14 = 45 \quad 90 - 45 = 45$ $45 - 9 = 36$ $36 \div 2 = 18$ $18 + 9 = 27$	<p>38. Area of compound shape = <math>1800000 \text{cm}^2</math></p> <p>Tiles = <math>\frac{1800000}{30 \times 30} = 2000</math> tiles</p> $2000 \div 50 = 40 \text{ boxes}$ $40 \times \$350 = \$14000$	<p>39.</p> <pre style="text-align: center;"> 1 1 1 1 2 1 1 3 3 1 1 4 6 4 1 1 5 10 10 5 1 1 6 15 20 15 6 1 1 7 21 35 35 21 7 1                     </pre>	<p>40. a) 35 students                  (b) <math>35 + 30 + 40 + 25 + 35 = 160</math>  <math>165 \div 5 = 33</math></p>
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### TEST 4 MATHEMATICS

1. 1111	2. 11	3. 40	4. 87
5. 15.18	6. $3\frac{1}{2}$	7. 5 5 5 . 5(5)	8. 240
9. >	10. \$31.25	11. 1 hour and 50 minutes	12. metres
13. $4.51 \times 1000 = 4510\text{g}$	14. $6\text{cm} \times 6\text{cm} \times 6\text{cm} = 216\text{cm}^3$	15. cone	16. 3
17. 2 pairs	18. $97 \times 6 = 582$	19. $27 \times 20 = 540$ $540 \times \$8 = \$4320$	20. <del>1111</del> 1111
21. $\frac{1}{4} + \frac{5}{12} = \frac{2}{3}$  $\frac{3}{3} - \frac{2}{3} = \frac{1}{3}$	22. $28.5\text{m} \div 2\text{m} = 14.25$ Remaining = 0.25m	23. $\frac{1}{2} \times 48 = 24$ Remainder = $48 - 24 = 24$ Amy = $\frac{1}{3} \times 24 = 8$ $24 + 8 = 32$ $48 - 32 = 16$	24. March to July = 5 months Saved = $5 \times \$1200 = \$6000$ Needs = $\$6585 - \$6000 = \$585$
25. $377 - 2 = 375$ $375 \div 3 = 125$ $125 + 1 = 126$	26. handbands = $8 \times \$15 = \$120$ $\$360 - \$120 = \$240$ $\$15 + \$25 = \$40$ $\$240 \div \$40 = 6$ $6 + 8 = 14$	27. 3 pens + 3 rulers = \$111 3 pens + 6 rulers = \$156 Difference = 3 pens = $\$156 - \$111 = \$45$ 1 pen = $45 \div 3 = \$15$	28. Factors of 60 = 1, 2, 3, 4, 5, 6, 10, 12, 15, 20, 30 and 60 Multiples of 5 = 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60 Which factor – 2 is a multiple of 5 = 12
29. $65.25\text{kg} + 146.1\text{kg} = 211.35\text{kg}$ $211.35\text{kg} - 207.5\text{kg} = 3.85\text{kg}$	30. $15\text{m} \times 9\text{m} \times 12\text{m} = 1620\text{m}^3$ $3\text{m} \times 3\text{m} \times 3\text{m} = 27\text{m}^3$ $1620 \div 27 = 60 \text{ cubes}$	31. $9:15\text{pm} + 4\text{hrs}55\text{mins} = 2:10\text{a.m.}$	32. $10\text{cm} - 5\text{cm} = 5\text{cm}$ $12\text{cm} - 2\text{cm} = 10\text{cm}$ Area = $10\text{cm} \times 5\text{cm} = 50\text{cm}^2$
33. 1, 4, 9, 16, 25, 36 etc Pattern of square numbers. $1 \times 1 = 1, 2 \times 2 = 4, 3 \times 3 = 9, 4 \times 4 = 16$	34. Plane shape formed is an isosceles triangle - 2 sides equal, 2 angles equal and 1 line of symmetry.	35. $125 + 60 + 116 + 92 = 393$ $480 - 393 = 87$ $\frac{1}{8} \times 480 = 60$ Vendor B	36. $46 \times 4 = 184$ $57 \times 3 = 171$ $184 - 171 = 13$

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<p>37. <math>36 \div 18 = 2</math> doz  <math>3 \times \\$4.00 = \\$12.00</math>  <math>VAT = 12 \frac{1}{2} \times 74 = \\$9.25</math>  <math>\\$74.00 + \\$9.25 = \\$83.25</math></p>	<p>38.                  (a) Perimeter = 48m                  (b) No. of poles = <math>48 \div 3 = 16</math>  <math>16 + 1 = 17</math> poles                  (c) <math>17 \times \\$125 = \\$2125</math>  <math>\\$2125 + \\$800 = \\$2925</math></p>	<p>39. Connect the dots to form a kite.</p>	<p>40. Monday = <math>\frac{1}{4} \times 80 = 20</math>                  Total = <math>20 + 10 + 50 + 80 = 160</math>                  Tuesday = <math>200 - 60 = 40</math></p>
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**TEST 5 MATHEMATICS**

1. two hundred and one thousand, six hundred and fifty-five	2. 5000	3. 6	4. 105
5. 40	6. $\frac{4}{5}, \frac{17}{20}, \frac{9}{10}$	7. $\frac{3}{5}$	8. $5 \frac{3}{7}$
9. \$320	10. \$26.25	11. 8cm	12. 0.8kg
13. 6cm	14. 16cm	15. B, C, A	16. hexagon
17. 6	18. 255	19. $12 \times 90 = 1080$	20. $4 \times 5 = 20$
21. 15 goes into the box. $800 + 120 + 100 + 15 = 1035$	22. $12 \times 2 = 24$ $24 \times 4 = 96$ $96 + 7 = 103$	23. $H = 250 + 101 + X$ $K = 100 + X$ $G = X$ $450 + 3X = 600$ $X = \$50$ $H = \$400$ $K = \$150$ $G = \$50$	24. Mon-Fri = $8 \times 5 = 40$ hrs $40 \times \$24 = \$960$ Sat = $10 \text{ hrs} \times 1 \frac{1}{2} \times \$24 = \$360$ $\$960 + \$360 = \$1320$
25. $VAT = \frac{1}{8} \times \$3200 = \$400$ Total = $\$3200 + \$400 = \$3600$	26. Sold = 20% Rem. = 80% Jen. $\frac{40}{100} \times 80 = 32\%$ 48% = 120 oranges $100\% = \frac{120}{48} \times 100 = 250$	27. $4 + 3 + 7 = 14$ $140 \div 14 = 10$ $10 \times 3 = 30$	28. Apples approx. \$4.00 Pears approx. \$4.00 2 doz apples = $24 \times \$4 = \$96$ 3 $\frac{1}{2}$ doz pears = $42 \times \$4 = 168$ $\$96 + \$168 = \$264$ Chris will be able to buy the apples and pears.
29. $2350\text{m} + 1070\text{m} + 5000\text{m} = 8420\text{m}$ $8420 \div 1000 = 8.42\text{km}$	30. Length of 1 side = 12cm Perimeter = $12\text{cm} \times 8 = 96\text{cm}$	31. $27 \times 3 = 81$ $81 - 13 = 68$	32. $5:25 + 15 = 5:40$ $5:40 + 1\text{hr}45\text{mins} = 7:25 = 1925\text{hours}$
33. C, D, E	34. 6 vertices, triangular based pyramid	35. Total = $60 \times 6 = 360$ runs $360 - 255 = 105$ runs	36. total students = 35 $\frac{14}{35} \times 100 = 40\%$ 35
37) $1D + 1\text{shirt} + 1\text{sho} = \$450$ $1D + 1\text{sht} + 2\text{sho} = \$510$ $1\text{shoe} = 510 - 450 = \$60$ $1D + 1\text{shirt} = 450 - 60 = 390$	38. $\frac{120\,000 \times 20 \times 2}{100} = \$48000$ Total = $120000 + 48000 = \$168000$	39. Complete shape	40. (a) Total = $20 \times 4 = 80$ $18 + 15 + 24 = 57$ $80 - 57 = 23$

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390÷3 =130 Dress=130x2=\$260	\$168000÷24= \$7000		(b)50x6=300 300-80=220 dresses
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**TEST 6 MATHEMATICS**

1. Two hundred and three thousand, one hundred and twenty-five dollars and seventy five cents.	2.73	3. =	4. $33\frac{1}{3}\%$
5. 9	6. 301	7. \$180	8. <u>77</u> .77
9. \$174.25	10. Two wholes and one eighth	11.litres	12.2212 hours
13. 4cm	14. 18.45 x 1000=18450cm <sup>3</sup>	15. Quadrilaterals	16. triangular prism
17. two quarter turns	18. <del>1111</del> <del>1111</del> 1 = 11	19. 148 ÷ 4 = 37	20.Thursday
21. $\frac{1}{3} + \frac{4}{9} = \frac{7}{9}$  $\frac{9}{2} \times 6 = 27m$	22. 75%, $\frac{3}{5}$ , 0.5, $\frac{1}{4}$	23. $\frac{1}{8} \times 6200 = \$775$ \$6200 + \$775 = \$6975	24. SI= $\frac{150000 \times 8 \times 10}{100}$ =\$120 000 Total = \$150 000 + \$120 000 = \$270 000
25. Add $\frac{2}{12}$ or $\frac{1}{6}$  $3\frac{5}{12} + \frac{2}{12} = 3\frac{7}{12}$	26. 16m ÷ 2 =8m 20 poles = 19 spaces 19 x 8m = 152m	27. Paul = 14 yrs Kyle = 14 + 12 = 26 yrs Ryan =26-6 = 20yrs Ricky= 20x2 =40yrs	28.8:00am – 4:00pm=8hrs 8x\$25 = \$200 \$200x5days=\$1000 8:00am-2:00pm=6hrs 1 ½ x25 = \$37.50 \$37.50x6=\$225 \$1000 + \$225 = \$1225
29. Count the sides of each shape since perimeter is the distance around. A has a perimeter of 28cm while B has a perimeter of 38cm. B has the greater perimeter.	30. Perimeter=80+45+80+45 =250cm 1500÷250= 6times	31. 0.2 + 0.2 = 0.4 =400ml 1000ml-400ml=600ml	32. Apples = 4.5kg Pineapples=4.5x2=9.0kg Watermelons=9.0x2=18kg Total=4.5+9.0+18.0 =31.5kg
33. Complete a parallelogram.	34. Isosceles triangle, equilateral triangle	35. 65 x 4 = 260 70 x 5 = 350 350 – 260 = 90	36. Modal size = 36 $\frac{36}{100} \times 100 = 25\%$ 144

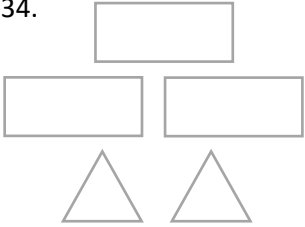
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<p>37. Boys /Girls=65%  <math>\frac{65}{100} \times 1500 = 975</math>    <math>975 \div 3 = 325</math>  Girls=325  Boys= 325x2=650    Adults=<math>\frac{35}{100} \times 1500 = 525</math>  Women = <math>\frac{4}{5} \times 525 = 420</math>  Females=325+420=745</p>	<p>38.  (a)Vol of entire shape  <math>=20 \times 6 \times 11 = 1320 \text{cm}^3</math>    (b)Vol. of cut off portion  <math>=15 \times 6 \times 7 = 630 \text{cm}^3</math>    Volume remaining  <math>=1320 - 630 = 690 \text{cm}^3</math></p>	<p>39.Cone,triangular prism,cube,cylinder</p>	<p>40. <math>72 \times 4 = 288</math>  <math>96 + 60 + 48 = 204</math>  <math>288 - 204 = 84</math>    <math>\frac{96}{288} \times 100 = 33.3\%</math>  288</p>
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**TEST 7 MATHEMATICS**

1. 97	2. $7\frac{5}{8}$	3. 528	4. 50
5. $(6 \times 1000) + (7 \times 100) + (0 \times 10) + (8 \times 1) + (5 \times \frac{1}{10}) + (5 \times \frac{1}{100})$	6. \$176	7. 0.41	8. 73
9. 20 spaces=21poles	10. 8.04, 8.40, 8.44	11. 2.560ml	12. 7:25
13. Side =12cm Preimeter= $12 \times 4 = 48 \text{cm}$	14. 115g	15. cube and cuboid	16.tennis court
17. one triangle, one square	18. 41 runs	19. yellow	20. $21 - 17 = 4$
21. $\$21250 + \$50000 = \$71250$	22. 20students= 19 spaces $19 \times 2.5 = 47.5 \text{m}$	23. $\frac{2}{5} = 68$ $\frac{5}{2} \times 68 = 170$ $\frac{3}{10} \times 170 = 51$	24. $8:30 \text{am} - 4:30 \text{pm} = 8 \text{hrs}$ $8 \text{hrs} \times 6 = 48 \text{hrs}$ $48 \times \$20.50 = \$984$
25. $530 - 284 = 246$ $3x = 246$ $x = 246 \div 3 = 82$ Boys = $82 \times 2 = 164$ Girls = 82	26. 2,5,8,11,14,17 Pattern rule-add three tiles -2 grey and 1 white in an increasing pattern starting from 2	27. $\$30 \div 8 = \$3.75$ $\$42 \div 12 = \$3.50$ Vendor B sells cheaper	28. $35 + 35 = 70$ questions 100% = 70 questions 1% = $\frac{70}{100}$ 80% = $\frac{70}{100} \times 80 = 56$ 56 - 27 = 29 questions
29. 48cm	30. $4:15 + 2 \text{hrs } 50 \text{mins} + 15 \text{mins} = 7:20$ Long hand on 4, short hand after 7.	31. $16 \text{m} = 16 \times 100 = 1600 \text{cm}$ $1600 \text{cm} - 64 \text{cm} = 1536 \text{cm}$  $40 \text{cm} + 24 \text{cm} = 64 \text{cm}$  $1536 \div 64 = 24$ pieces	32. $25000 + 215 = 22215 \text{g}$ $\frac{22215}{15} = 1681 \text{g} = 1.681 \text{kg}$ 15

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<p>33. 14</p>	<p>34.</p> 	<p>35. <math>65 \times 5 = 325</math></p> <p><math>70 \times 6 = 420</math></p> <p><math>420 - 325 = 95</math></p>	<p>36. Total = <math>30 \times 5 = 150</math>  <math>23 + 20 + 31 + 55 = 129</math>  <math>150 - 129 = 21</math></p> <p>Total = <math>28 \times 6 = 168</math></p>
<p>37.</p> <p>25 apples were given free</p> <p>25 customers bought 3 apples = <math>25 \times 3 = 75</math></p> <p>75 apples <math>\times 4 = \\$300</math></p> <p><math>\\$500 - \\$300 = \\$200</math></p> <p><math>\\$200 \div 4 = 50</math></p>	<p>38.</p> <p>Vol=<math>90\text{cm} \times 45\text{cm} \times 55\text{cm}</math>  <math>= 222750\text{cm}^3 = 222.75\text{L}</math></p> <p>Vol=<math>90\text{cm} \times 45\text{cm} \times 5\text{cm}</math>  <math>= 20250\text{cm}^3 = 20.25\text{L}</math></p>	<p>39. Connect the dots to form a trapezium.</p>	<p>40. Total km = <math>10 \times 4 = 40</math>  <math>5 + 5 + 20 = 30</math>  <math>40 - 30 = 10</math> for Olivia</p> <p>(b) Natalie because she covered the most number of km during her practice for the marathon (20 km compared to Olivia with 10 km and Joy and Florence with 5 miles km.</p>

**TEST 8 MATHEMATICS**

1. 7450.21	2. 93	3. 14	4. 20.25
5. \$2.50	6. \$2495	7. 368	8. $1\frac{1}{4}$
9. Shade 29 more blocks	10. $409 + 108 = 517$	11. 9cm	12. $432\text{cm}^3$
13. $24\text{cm} - 19\text{cm} = 5\text{cm}$	14. $15 \times 250\text{ml} = 3750\text{ml}$ $= 3.75\text{litres}$	15. 2	16. cube, cuboid, cylinder, triangular prism
17. 3	18. <del>111</del> $111 = 8$	19. $55 \times 3 = 165$ runs	20. $45 + 52 + 30 + 65 + 68 = 260$ $260 \div 5 = 52 = \text{Tuesday}$
21. 108	22. $10 + 11 = 21$	23. $\$1845 + \$1845 = \$3690$	24. \$22 500
25. Jace's pattern is formed by adding 3 to the previous number. Zion has an increasing pattern adding 9 to the previous number. Jace will be at 27 when Zion is at 81.	26. $300 \div 4 = 75$ $75 \times 3 = 225$ $1/5 \times 225 = 45$ $225 - 45 = 180$ $180 \times 100 = 80\%$ 225	27. Lana = 12 yrs Natasha = $12 + 12 = 24$ yrs Robert = $24 - 8 = 16$ yrs Ken = $16 \div 2 = 8$ yrs	28. $9:15\text{am} - 11:50\text{am} = 3$ hrs $2:15\text{pm} - 5:00\text{pm} = 3$ hrs $6\text{hrs} \times 8 = \$48.00$
29. Area of room = $400 \times 400 = 160000$	30. $19:30 = 7:30\text{pm}$ $7:30 + 10 \text{ mins} = 7:40\text{pm}$	31. $75 \text{ cubes} - 37 \text{ cubes} = 38 \text{ cubes}$	32. Shade to complete 8cm in length x 4cm wide



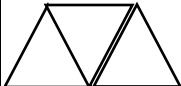
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Area of tile =20x20=400 160000÷400=400tiles			
33. Parallel lines, perpendicular lines	34. The hexagon does not belong in the set. All the other shapes are quadrilaterals which are 4 sided fgures.	35. Total = $82 \times 4 = 328$ $85 \times 5 = 425$ $425 - 328 = 97$	36. $10 + 9 + 3 + 2 = 24$ $24 \div 4 = 6$
37. $3x = 552$ $X = 552 \div 3 = 184$ 184 G $184 \times 2 = 368$ B $\frac{1}{4}$ of the girls are over 10 yrs = $\frac{1}{4} \times 184 = 46$ $184 - 46 = 138$	38. $40 - 2 = 38$ $38 \div 2 = 19\text{m}$ $40 - 3 = 37$ $37 \div 3 = 18.5\text{m}$  Area of 1 rectangle = $19 \times 18.5 = 351.5\text{m}^2$ Area of 4 rectangles = $351.5 \times 4 = 1406\text{m}^2$  Unshaded = $1600 - 1406 = 194\text{m}^2$	39. Parallelogram	40. Total = $25 \times 3 = 75$ words After 2 tests, total = $23 \times 2 = 46$ words $75 - 46 = 29$ Since the test is out of 25, Jessica will not get the number of words to qualify.

**TEST 9 MATHEMATICS**

1. 60 000	2. Store 4	3. 79000	4. 129
5. $\frac{7}{8}$	6. 13.1	7. $\frac{69}{8}$	8. 1.45
9. 50	10. 6	11. Long hand on the 8, short hand after the 5	12. 5cm
13. 8x8 square	14. 250g	15. 2	16. 8
17. triangular based- pyramid	18. 15, <del>111</del> 111	19. $276 - 234 = 42$	20. 143
21. red = 120 Blue = $\frac{1}{5} \times 380 = 76$ $120 + 76 = 196$ $500 - 196 = 304$	22. 0.35	23. 144 and 81	24. 24. Multiples of 8 = 8, 16, 24, 32, 40, 48, 56, 64, 72, 80, 88, 96 Answer: Omarion is correct because 40 and 80 are two multiples of 8 and 10 less than 100.
25. $\frac{1}{3} \times 45 = \$15$ $\frac{25}{100} \times 125 = \$31.25$ Total discount = $\$15 + \$31.25 =$ $\$46.25$	26. VAT = \$34.00 Total = $\$272 + 34 = \$306$	27. Carla = \$675 Reanna = $\$675 + \$25$ = \$ 700 Michael = $\$700 - \$65$ = \$ 635 Total = $675 + 700 + 635$ = \$ 2010	28. An increasing pattern where you add 6,8,10,12,14 etc. 6 <sup>th</sup> pattern = 54

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29. $1\frac{1}{4}$ km = 1250 m $1250 - 450 = 800$ m	30. 8: 45 + 1: 45 = 10:30 $10:30 + 20$ mins = 10:50am	31. Volume of larger box= $80 \times 60 \times 60 = 288000$ cm <sup>3</sup> Volume of smaller box= $15 \times 8 \times 10 = 1200$ cm <sup>3</sup> $288000 \text{cm}^3 \div 1200 \text{cm}^3 = 240$	32. Area of door= $1 \text{m} \times 2 \text{m} = 2 \text{m}^2$ Area of wall= $6 \text{m} \times 3 \text{m} = 18 \text{m}^2$ $18 \text{m}^2 - 2 \text{m}^2 = 16 \text{m}^2$  $16 \text{m}^2 \times 2 = 32 \text{m}^2 = 320000 \text{cm}^2$ $320000 \div 625 = 512$ tiles
33. The cylinder has three faces, two edges and no vertices. The cone has two faces, one edge and one vertex.	34. Clock A – Long hand on 9 Clock B – Long hand on 6	35. $34 + 40 = 74$ Mean = $74 - 25 = 49$	36. Total after 3 days = 100cars Total after 4 days = $30 \times 4 = 120$ cars  $120 - 100 = 20$ cars
37. Rent = $\frac{2}{10} \times 12000 = \$ 2400$ Gas = $\frac{10}{100} \times 12000 = \$1200$ Food & miscellaneous = $\frac{1}{5} \times 8400 = \$1680$ Total = $\$ 2400 + \$ 1200 + \$ 1680 = \$ 5280$ Saved = $\$12\ 000 - \$5280 = \$ 6720$	38. Mass of the 4 bags = $9000 \times 4 = 36000$ g Bag A & Bag B = $6000 \times 2 = 12\ 000$ g Bag C & D = $36000 - 12000 = 24000$ g  $\frac{24000}{4} = 6000$ g Bag C = $6000 \times 3 = 18000$ g Bag D = 6000g	39. Trapezium 	40. Total = $64 \times 5 = 320$ $68 + 80 + 52 = 200$ $320 - 200 = 120$ $\frac{120}{2} = 60$ marks

**TEST 10 MATHEMATICS**

1. 25347	2. 6012,6123,6232,6543	3. 48.8	4. Tens of thousands
5. $2\frac{4}{9}$	6. 4040	7. \$80	8. 0.09
9. 32	10. 2056	11. kg	12. $12 \times 8 = 96 \text{cm}^2$
13. $9 \times 9 \times 9 = 729 \text{cm}^3$	14. 0.1kg	15. 3	16. zero lines of symmetry
17. a and f	18. $34 \times 8 = 272$	19. $17 + 8 = 25$ $35 - 25 = 10$ Tally for 10	20. Mathematics
21. $24 + 28 + 32 + 36 = 120$	22. $200 - 111 = 89$	23. $\frac{9}{20}$	24. (a) Add a bottom row of 6 dots to the last pattern. (b) 45 dots
25. Rhonda's number line is correct. There are five	26. $205 - 15 = 190$ $190 - 55 = 135$	27. $12 \times 10 = \$120$ $\$1225 - \$120 = \$1105$	28. Store A $20 \times 1720 = \$344$

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spaces and each space is 0.2. In Linda's number line, the value of each space is 0.1 and this is incorrect. The numberline must have 10 spaces for the value of each space to be 0.1.	$190 + 135 = 325$	$\$1105 \div 17 = 65$ $65 + 12 = 77$	100 $\$1720 - 344 = \$1376$  Store B $25 \times 1690 = \$422.50$ 100 $\$1690 - 422.50 = \$1267.50$ Answer: Store B
29. $250\text{g} = \frac{1}{4}\text{kg} = \$3.50$ $\frac{1}{2}\text{kg} = \$3.50 \times 2 = \$7.00$ Shania is selling cheaper. \$4.00 for $\frac{1}{2}\text{kg}$	30. Rect. = $36 \times 2 = 72\text{cm}$ Square = $32 \times 2 = 64\text{cm}$ $72\text{cm} - 64\text{cm} = 8\text{cm}$	31. $6\text{cm} \times 4\text{cm} \times 2\text{cm} = 48\text{cm}^3$ Height = $\frac{48}{4 \times 4} = 3\text{cm}^3$	32. $5\frac{2}{5}\text{ hours} = 324\text{mins}$ $324 \div 4 = 81\text{minutes}$ Lyndon = $81\text{mins} = 1\text{hr } 21\text{mins}$ Jarod = $81 \times 3 = 243\text{mins} = 4\text{hrs } 3\text{mins}$
33. One pair of parallel lines, two angles less than a right angle, one line of symmetry.	34. Complete shape	35. $4 \times 1 = 4$ $2 \times 2 = 4$ $3 \times 3 = 9$ $1 \times 4 = 4$ $1 \times 5 = 5$ $5 \times 6 = 30$ (a) Number of persons = 16 (b) Total = 56	36. $\frac{15}{40} \times 100 = 37.5\%$ 40
37. $1\frac{1}{2}$ dozen, \$16.50, \$64, VAT = \$8 Total = \$72	38. $12\text{cm} \times 4\text{cm} = 48\text{cm}^2$ $12\text{cm} \times 6\text{cm} = 72\text{cm}^2$ $12\text{cm} \times 4\text{cm} = 48\text{cm}^2$ Total area = $168\text{cm}^2$	39. Cuboid, square-based pyramid, triangular-based pyramid, triangular prism	40. $60 - \cancel{111} = 5$ $65 - 111 = 3$ $70 - \cancel{111} = 16$ $80 - 11 = 2$ $90 - 111 = 3$ $100 - 1 = 1$  (b) 70 marks (c) 44%

### TEST 11 MATHEMATICS

1. 6 502 122	2. 0.34	3. $\frac{7}{8}$	4. 3
5. $7\frac{5}{6}$	6. 32.1	7. $14\frac{1}{4}$	8. \$4.60
9. 4%	10. 0.25	11. 5.4cm	12. 40 minutes
13. 40	14. $16 \times 4 = 64$ $64 \div 2 = 32\text{cm}$	15. Angle A and C	16. Square
17. 3 quarter turns	18. <del>1111</del> 1111	19. 75	20. Tuesday

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21. 230 + 6 = 236 236 - 20 = 216 216 ÷ 8 = 27	22. (a) $\frac{6}{8}$ shaded in the first fraction model which is equivalent to $\frac{3}{4}$ . (b) Models to represent $\frac{9}{12}$ , $\frac{12}{16}$ , $\frac{15}{20}$	23. $26 \times 12 = 312$ $312 + 9 = 321$	24. $150 - 39 = 111$ $111 \div 3 = 37$ $37 \times 2 = 74$
25. $y = 35$ $X = 105 \times 2 = 210$	26. VAT = \$1975 Total cost = \$17775	27. 1kg = $\$12.60 \div 5 = \$2.52$ 20kg = $20 \times \$2.52 = \$50.40$	28. (a) 11 (b) 1
29. 7:20a.m.	30. 72cm	31. Vol.of box = $30 \times 20 \times 8 = 4800 \text{cm}^3$ Vol.of candy = $5 \times 4 \times 2 = 40$ $4800 \div 40 = 120$ candies	32. Alex by 4kg 23g
33. Complete shape on the grid	34. 2 sides equal, 2 angles equal, 1 line of symmetry	35. Multiples of 7 = 7, 14, 21, 28, 35, 42 Mean = $147 \div 6 = 24.5$	36. Total = 18 Total for 8 months = 32 $32 - 18 = 14$ $14 \div 2 = 7$
37. (a) \$72 600 (b) \$3025	38. $2 \times 2 = 4 \text{cm}^2$ $6 \times 2 = 12 \text{cm}^2$ $4 \times 4 = 16 \text{cm}^2$ Total area = $32 \text{cm}^2$	39. Opposite angles equal, opposite sides equal, two pairs of parallel lines, zero lines of symmetry	40. (a) $30000 - 24000 = 6000$ (b) $30000 \div 60 = 500$ chickens

**TEST 12 MATHEMATICS**

1. One million, five hundred and four thousand and twenty	2. 0.75, 50%, $\frac{1}{4}$	3. 5	4. 15
5. 25	6. 9	7. 7	8. 2.83
9. \$10, 10c, 5c	10. \$43.00	11. 6:20	12. 4cm
13. 11cm	14. 800g	15. CAB	16. cylinder
17. 4 lines of symmetry	18. 816	19. 12 <del>1111</del> 1111 1111 1111	20. coconut
21. $\frac{1}{10}$	22. $\$9000 + \$8000 = \$17000$	23. 144	24. Marsha = 53 Sarah = 31

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<p>25. \$8.00</p>	<p>26. Multiples of 10 between 50 and 100 + 5 = 65, 75, 85, 95          Multiples of 7 between 50 and 100 +1 = 57, 63, 73, 78, 85, 92, 99          Ans. = \$85</p>	<p>27. One half is equal to two quarters which is equal to four eighths.</p>	<p>28. 2 vests = \$ 23.50          VAT =\$43.50          Total = \$ 391.50</p>
<p>29. 106cm<sup>2</sup></p>	<p>30. Clock to show 12:05pm</p>	<p>31. 13cm</p>	<p>32. 40cm</p>
<p>33. six square faces</p>	<p>34. 4 quarter turns</p>	<p>35. Total for 5 numbers is 500. Mean =100          When one number is removed the total= 4x100=400 and the mean is 400÷4=100</p>	<p>36. 3kg 808g/ 3808g</p>
<p>37. Females =1800          Males =1800x2 = 3600          Panthers=<math>\frac{80}{100} \times 36=2880</math></p>	<p>38. (a) 8mins = 8x60=480seconds          Yes Linda achieved her goal.          (b)480-440=40 seconds          Linda was above her target by 40 seconds.</p>	<p>39.(a)parallel          (b)intersecting          (c)perpendicular          (d)parallel</p>	<p>40. Total = 88x3 = 264          Three scores =80,90,94</p>