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| 1. | $\begin{array}{r} 7469 \\ -2361 \\ \hline \text { Answer } 5108 \end{array}$ | $\begin{array}{r} \mathrm{T} \\ 74 \\ -23 \\ \hline 51 \end{array}$ | $\begin{array}{ll} 1 & \mathrm{t} \\ 6 & 9 \\ 6 & 1 \\ \hline 0 & 8 \\ \hline \end{array}$ |  |  |  |  |  |  |  |
| 2. | Write in figures: <br> Two hundred and five thousand and seventy-three. <br> Answer: 205073 | Two hundred and five thousand 205000 Seventy-three |  |  |  |  |  |  |  |  |
| 3. | State the VALUE of the underlined digit in the following numeral. $75 \underline{\mathbf{3}} 291$ <br> Answer: <br> Three thousand ( $\mathbf{3} \mathbf{0 0 0 )}$ | 7 <br> Hundre <br> dis or <br> dhousai <br> ds | $\begin{array}{\|c\|} \hline 5 \\ \hline \begin{array}{c} \text { Tens of } \\ \text { thousan } \\ \text { ds } \mathrm{s} \end{array} \\ \hline \end{array}$ | $\substack{\text { Thuousa } \\ \text { nds }}$ | $\begin{array}{\|l\|} \hline \\ \hline \end{array}$ | $\begin{array}{\|r\|} 9 \\ \hline \text { Tens } \end{array}$ | Ones |  |  |  |
| 4. | Write the number in the box that CORRECTLY completes the following sentence. $\begin{aligned} & \frac{1}{12} \times \square=20 \\ & \frac{1}{12} \times 240=20 \end{aligned}$ <br> Answer: 240 | The whole number is $20 \times 12=240$ <br> OR $\begin{aligned} \frac{1}{12} \times \square & =20 \\ \square & =20 \div \frac{1}{12} \\ & =\frac{20}{1} \div \frac{1}{12} \\ & =\frac{20}{1} \times \frac{12}{1} \\ & =240 \end{aligned}$ |  |  |  |  |  |  |  |  |



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| 8. | Complete the following number sequence. $4,9,15,22,30,39$ $\qquad$ <br> Answer: 49 $4,9,15,22,30,39,49$ | $\begin{aligned} & 4_{4+5=9} \\ & 9_{9+6=15} \\ & 15_{15+7}=22 \\ & 22_{22+8=30} \\ & 30_{30+9=39} \\ & 39_{39+10=49} \\ & 49^{2} \end{aligned}$ <br> Therefore, the next number in the sequence is 49 . |  |  |  |
| 9. | Write the time shown on Clock A, in digital notation, on Clock B. <br> Answer: <br> Clock B $3: 40$ | The hour or shorter hand is between 3 and 4. This means the hour is after 3 o'clock but not yet 4 o'clock. <br> The number of minutes between each number is 5 . <br> The minute or longer hand points to the number 8. Therefore, $8 \times 5=40$ minutes have passed since 3 o'clock. <br> Therefore, the time is 3:40 in digital notation. |  |  |  |
| 10. | Convert 2.369 kilometres to metres. <br> Answer: 2369 | $\begin{aligned} & 1 \text { kilometre }=1000 \text { metres } \\ & \text { Therefore, } \begin{aligned} 2.369 & =2.369 \times 1000 \\ & =2369 \text { metres } \end{aligned} \end{aligned}$ |  |  |  |


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| 11. | What is the length of the pencil to the NEAREST centimetre? <br> Answer: $\mathbf{3} \mathbf{c m}$ | The point of the pencil is a little to the left of the 2.5 cm mark. <br> The other end of the pencil is about where the 5.5 cm mark appears to be. <br> The pencil is a little bit longer than $5.5-3.5=3.0 \mathrm{~cm}$ and so the length of the pencil is equal to 3 cm to the nearest centimetre. |  |  |  |
| 12. | Chad buys a bag of oranges for $\$ 9.50$. How much change should he get if he pays with a $\$ 20.00$ bill? <br> Answer: \$10.50 | The cost of the bag of oranges $=\$ 9.50$ <br> The amount that is used for payment $=\$ 20.00$ <br> Therefore, the change is $\$ 20.00-\$ 9.50$ $\begin{array}{r} 20.00 \\ -\quad 9.50 \\ \hline 10.50 \\ \hline \end{array}$ <br> The change is $\$ 10.50$ |  |  |  |
| 13. | $\begin{array}{rc} \mathbf{k g} & \mathbf{g} \\ 6 & 763 \\ +\quad 3 & 286 \\ \hline \end{array}$ <br> Answer : $\qquad$ |  |  |  |  |



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| 16. | What is the name of the solid shape that can be made with the following net? <br> Answer: Triangular prism OR tetrahedron | If we fold A along side $1, \mathrm{~B}$ along side 2 and C along side 3 , so that $\mathrm{A}, \mathrm{B}$ and C touch we should form a triangular prism. <br> The triangular prism has four faces that are identical, it is also called a tetrahedron. |  |  |  |
| 17. | How many lines of symmetry are there in the following shaded shape? <br> Answer: 4 lines | There are 4 lines of symmetry in the given shape. |  |  |  |


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| 18. | Tyson is facing West and makes THREE $\frac{1}{4}$-turns in a clockwise direction. <br> In which direction will Tyson now be facing? <br> Answer: South (S) |  <br> Tyson is facing West. $\mathrm{w} \longleftarrow \longleftrightarrow \cdot T y s o n$ <br> After $1^{\text {st }} \frac{1}{4}$ turn clockwise: <br> After $2^{\text {nd }} \frac{1}{4}$ turn clockwise: <br> After $3^{\text {rd }} \frac{1}{4}$ turn clockwise: |  |  |  |




## SECTION II

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| 21. | $2 \frac{7}{8}+4 \frac{1}{3}$ <br> Answer: $7 \frac{5}{24}$ | $2 \frac{7}{8}+4 \frac{1}{3}$ <br> Adding the whole numbers: $2+4=6$ <br> Adding the fractions: $\begin{aligned} & \frac{7}{8}+\frac{1}{3} \\ & \frac{7}{8} \times \frac{3}{3}=\frac{21}{24} \\ & \frac{1}{3} \times \frac{8}{8}=\frac{8}{24} \\ & \frac{7}{8}+\frac{1}{3}=\frac{21}{24}+\frac{8}{24} \\ &=\frac{21+8}{24} \\ &=\frac{29}{24} \\ &=\frac{24+5}{24} \\ &=1+\frac{5}{24} \end{aligned}$ <br> Hence, $\begin{aligned} 2 \frac{7}{8}+4 \frac{1}{3} & =6+1+\frac{5}{24} \\ & =7 \frac{5}{24} \end{aligned}$ |  |  |  |


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| 22. | Maria has 413 stamps. Her brother has 49 stamps fewer than she has. How many stamps do they have ALTOGETHER? <br> Answer: 777 | Maria has 413 stamps. <br> Brother has 49 fewer stamps. <br> Therefore, her brother has $413-49=364$ stamps. $\begin{array}{r} 413- \\ \frac{49}{364} \\ \hline \end{array}$ <br> Together Maria and her brother have $413+$ 364 stamps. $\begin{aligned} & 413+ \\ & 364 \\ & \hline 777 \\ & \hline \end{aligned}$ |  |  |  |
| 23. | The following diagram shows a wall that is to be covered with identical square tiles. The shaded area is already tiled. <br> Express the area of the tiled portion as a decimal fraction of the area of the entire wall. <br> Answer: 0.25 |       <br>       <br>       <br>       <br> The wall consists of 4 rows each with 6 equal squares $=4 \times 6=24$ squares. <br> The number of squares that are covered $=4+2=6$ <br> The area of the tiled portion covered as a fraction of the entire wall $=\frac{6}{24}=\frac{1}{4}$ $\begin{aligned} & 0.25 \\ & 4 \longdiv { 1 0 } \\ & -\quad 8 \\ & \hline 20 \\ & \hline \end{aligned}$ |  |  |  |


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| 24. | Express as a SINGLE decimal fraction: $\frac{5}{100}+\frac{3}{10}$ <br> Answer: 0.35 | $\begin{aligned} \frac{5}{100}+\frac{3}{10} & =\frac{5}{100}+\frac{3 \times 10}{10 \times 10} \\ & =\frac{5}{100}+\frac{30}{100} \\ & =\frac{5+30}{100} \\ & =\frac{35}{100} \\ & =0.35 \end{aligned}$ |  |  |  |
| 25. | Jerry has 40 stickers that are either red, yellow or blue in colour. There are 24 red ones and equal numbers of blue and yellow. <br> Calculate the percentage of his stickers that are yellow. <br> Answer: 20\% | Total number of stickers $=40$ The number of red stickers $=24$ <br> Therefore, the number of blue stickers and yellow stickers $=40-24=16$ <br> 40 - <br> 24 <br> 16 <br> The number of yellow stickers is the same as the number of blue stickers $=16 \div 2=8$ <br> The number of yellow stickers $=8$ <br> Percentage of yellow stickers $\begin{aligned} & =\frac{\text { No. of yellow stickers }}{\text { Total no. of stickers }} \times 100 \\ & =\frac{8}{40} \times 100 \\ & =20 \% \end{aligned}$ |  |  |  |

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| 26. | Sasha used $55 \%$ of her savings to buy a game. She has $\$ 135$ remaining. How much was her savings before buying the game? <br> Answer: \$300 | Sasha uses $55 \%$ of her savings to buy a game. $\begin{aligned} \text { The percentage remaining } & =100-55 \\ & =45 \% \end{aligned}$ <br> Remaining money $=\$ 135$ <br> Therefore, $45 \%$ of her savings is $\$ 135$. $\begin{aligned} 1 \% & =\frac{\$ 135}{45} & & \\ & =\$ 3 & & \text { Savings before } \\ 100 \% & =\$ 3 \times 100 & & \text { buying the } \\ & =\$ 300 & & \text { game is } 100 \% . \end{aligned}$ <br> Therefore total savings is $\$ 300$ |  |  |  |
| 27. | Brian and his father went fishing on the weekend (Saturday and Sunday). They caught 120 fishes on Saturday. Their catch decreased by $25 \%$ on Sunday. <br> a) Calculate the number of fishes they caught on Sunday. <br> Answer: 90 fishes <br> b) How many fishes did they catch ALTOGETHER on the weekend? <br> Answer: 210 fishes | a) The number of fishes caught on Saturday $=120$ <br> The catch decreased by $25 \%$ on Sunday. $\begin{aligned} 25 \% \text { of } 120 \text { fishes } & =\frac{25}{100} \times 120 \\ & =30 \end{aligned}$ <br> So, the number of fishes caught on Sunday $=120-30=90$ fishes 120 - $\begin{aligned} & 30 \\ & \hline 90 \\ & \hline \end{aligned}$ <br> Or <br> Catch decreased by $25 \%$. <br> So, the catch on Sunday $=(100-25) \%$ of the catch on Saturday $=75 \%$ of 120 fishes <br> $=\frac{75}{100} \times 120$ <br> $=90$ fishes <br> b) The total number of fishes caught over the two day period $=120+90=210$ fishes |  |  |  |

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| 30. | The following diagram shows a rectangular box with dimensions $6 \mathrm{~cm} \times 9 \mathrm{~cm} \times 18 \mathrm{~cm}$ and a small cube with sides 3 cm . <br> How many small cubes are needed to completely fill the rectangular box? <br> Answer: 36 cubes | The dimensions of the rectangular box $=6 \mathrm{~cm} \times 9 \mathrm{~cm} \times 18 \mathrm{~cm}$ <br> The dimensions of the cube $=3 \mathrm{~cm} \times 3 \mathrm{~cm} \times 3 \mathrm{~cm}$ <br> The number of cubes that are needed to completely fill the box $\begin{aligned} & =\frac{6 \times 9 \times 18}{3 \times 3 \times 3} \\ & =2 \times 3 \times 6 \\ & =36 \text { cubes } \end{aligned}$ |  |  |  |
| 31. | Calculate the area of the following shape. <br> Answer: $\mathbf{1 2 0} \mathbf{c m}^{2}$ | The compound shape is divided into two simpler shapes, $A$ and $B$, as shown. <br> Rectangle A has dimensions 10 cm by 9 cm Rectangle $B$ has dimensions 5 cm by 6 cm Area of rectangle $A=9 \times 10=90 \mathrm{~cm}^{2}$ <br> Area of rectangle $B=5 \times 6=30 \mathrm{~cm}^{2}$ <br> Total area of the entire shape $\begin{aligned} & =\text { Area of } A+\text { Area of } B \\ & =90+30 \\ & =120 \mathrm{~cm}^{2} \end{aligned}$ |  |  |  |


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|  |  | The compound shape is divided into two simpler shapes, $P$ and $Q$, as shown. <br> Rectangle P has dimensions 10 cm by 3 cm Rectangle Q has dimensions 15 cm by 6 cm Area of $P=3 \times 10=30 \mathrm{~cm}^{2}$ <br> Area of $Q=15 \times 6=90 \mathrm{~cm}^{2}$ <br> Total area of the entire shape <br> $=$ Area of $P+$ Area of $Q$ <br> $=30+90$ $=120 \mathrm{~cm}^{2}$ <br> OR <br> The region S is added to complete a larger rectangle measuring 15 cm by 9 cm . <br> The area of the shape <br> $=$ Area of the larger rectangle - Area of rectangle S $\begin{aligned} & =(15 \times 9) \mathrm{cm}^{2}-(5 \times 3) \mathrm{cm}^{2} \\ & =(135-15) \mathrm{cm}^{2} \\ & =120 \mathrm{~cm}^{2} \end{aligned}$ |  |  |  |
| 32. | Mrs. Chin got a loan of $\$ 6000$ from a credit union. She took 3 years to repay the loan at the simple interest rate of $5 \%$ per annum. Calculate the TOTAL amount of money that Mrs. Chin repaid. <br> Answer: \$6 900 | $\begin{aligned} & \text { The amount of the loan }=\$ 6000 \text { (Principal) } \\ & \text { Time of repayment }=3 \text { years (Time) } \\ & \text { Simple interest rate }=5 \% \text { per annum (Rate) } \\ & \begin{aligned} \text { Simple Interest } & =\frac{\text { Principal Rate Time }}{100} \\ & =\frac{\$ 6000 \times 5 \times 3}{100} \\ & =\$ 900 \end{aligned} \end{aligned}$ <br> The total amount repaid <br> $=$ Principal + Simple interest $=\$ 6000+\$ 900$ <br> $=\$ 6900$ |  |  |  |


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| 33. | In the following shape, ABCD , the sides $A B$ and $B C$ are both equal to 130 cm , and sides AD and $C D$ are equal in length. The perimeter of the shape is 660 cm . <br> Calculate the length of the side CD. <br> Answer: CD = 200 cm | $\mathrm{AB}=\mathrm{BC}=130 \mathrm{~cm}$ <br> The length of $A B+$ the length of $B C$ $\begin{aligned} & =(130+130) \mathrm{cm} \\ & =260 \mathrm{~cm} \end{aligned}$ <br> The perimeter of the shape $=660 \mathrm{~cm}$ Therefore, the length of CD + length of DA $\begin{aligned} & =(660-260) \mathrm{cm} \\ & =400 \mathrm{~cm} \end{aligned}$ <br> Now, CD = DA <br> Therefore, the length of $\mathrm{CD}=\frac{1}{2}(400) \mathrm{cm}$ $=200 \mathrm{~cm}$ |  |  |  |


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| 34. | The side of each square on the following grid is 3 cm . <br> Complete EACH of the following statements. <br> a) The area of ONE square on the grid is $\qquad$ $\mathrm{cm}^{2}$. <br> b) The TOTAL shaded area on the grid is $\qquad$ $\mathrm{cm}^{2}$. <br> Answer: <br> a) The area of ONE square on the grid is 9 $\mathbf{c m}^{2}$. <br> b) The TOTAL shaded area on the grid is $58 \frac{1}{2}$ $\mathrm{cm}^{2}$. | a) Length of each square on the grid $=$ 3 cm . <br> Therefore, the area of one square on the grid $=(3 \times 3) \mathrm{cm}^{2}$ $=9 \mathrm{~cm}^{2}$ <br> b) The shaded area consists of 4 whole squares and 5 triangles. <br> Each triangle is one half of the area of the square. <br> Therefore, the area of one triangle $\begin{aligned} & =\frac{3 \times 3}{2} \mathrm{~cm}^{2} \\ & =4 \frac{1}{2} \mathrm{~cm}^{2} \end{aligned}$ <br> The shaded area comprises 4 whole squares and 5 half squares <br> The total area of the shaded region $\begin{aligned} & =(4 \times 9)+\left(5 \times 4 \frac{1}{2}\right) \mathrm{cm}^{2} \\ & =36+\left(5 \times \frac{9}{2}\right) \mathrm{cm}^{2} \\ & =\left(36+22 \frac{1}{2}\right) \mathrm{cm}^{2} \\ & =58 \frac{1}{2} \mathrm{~cm}^{2} \end{aligned}$ <br> OR <br> We can choose to join two triangles to form a square and count the number of shaded squares in the diagram. <br> Number of shaded squares $=6 \frac{1}{2}$ or $\frac{13}{2}$ <br> Area of one square $=9 \mathrm{~cm}^{2}$ <br> Area of $6 \frac{1}{2}$ squares $=9 \times 6 \frac{1}{2}=9 \times \frac{13}{2}=\frac{117}{2}=58 \frac{1}{2} \mathrm{~cm}^{2}$ |  |  |  |

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| 38. | Three triangles, $\mathrm{P}, \mathrm{Q}$ and R , are shown below. <br> a) Which of the following triangles is equilateral? <br> Answer: R <br> b) Which of the triangles have AT LEAST ONE line of symmetry? <br> Answer: P and R | a) In triangle P , only two sides are equal. Triangle P is isosceles. <br> In triangle Q , all the sides are of unequal length. Triangle Q is scalene. <br> In triangle $R$, all the sides are of equal length. Triangle, $R$ is equilateral. <br> b) Triangle $\mathrm{P}-1$ line of symmetry <br> Triangle Q - No lines of symmetry <br> Triangle $\mathrm{R}-3$ lines of symmetry <br> Triangles that have at least one line of symmetry can have one or more than one line of symmetry. <br> Therefore, triangles P and R would meet these requirements. |  |  |  |


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| 39. | The following diagram shows a flat shaded shape, ABCD. <br> a) Circle the word from the following list which BEST describes the angle at C . <br> Acute Right-angled <br> Obtuse Reflex <br> Answer: <br> a) Acute Right-angled <br> Obtuse Reflex <br> b) On the diagram of ABCD , tick $(\checkmark)$ the TWO sides which are PARALLEL to each other. | a) Angles A and B are right angles. Angle B is greater than $90^{\circ}$ and is obtuse. The angle at C is less than $90^{\circ}$. Hence, it is acute. <br> Note: All of the three other suggestions are clearly incorrect. Hence, there is NO BEST answer. There is only one answer and so the word 'best' should not be used. <br> b) <br> The sides AB and DC are parallel to each other. |  |  |  |

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| 44. | The following diagram shows the number of long mats (L) and short mats (S) arranged around a rectangular playing field. <br> The length and width, in metres, of each type of rectangular mat are shown below. <br> Calculate: <br> a) The length of the playing field. <br> Answer: 12 m <br> b) The width of the playing field. <br> Answer: 6 m <br> c) The area of a short mat. <br> Answer: 1 m² <br> d) The number of short mats that would be needed to cover the area of the playing COMPLETELY. <br> Answer: 72 short mats | a) The length of the playing field is ' 3 times' the length of a long mat (L). $\begin{gathered} =3 \times 4 \mathrm{~m} \\ =12 \mathrm{~m} \end{gathered}$ <br> b) The width of the playing field is 3 times the length of a short mat (S). $\begin{gathered} =3 \times 2 \mathrm{~m} \\ =6 \mathrm{~m} \end{gathered}$ <br> c) The area of short mat (S) $\begin{aligned} & =(2 \times 0.5) \mathrm{m}^{2} \\ & =1 \mathrm{~m}^{2} \end{aligned}$ <br> d) The area of the playing field $\begin{aligned} & =\text { Length } \times \text { Width } \\ & =(12 \times 6) \mathrm{m}^{2} \\ & =72 \mathrm{~m}^{2} \end{aligned}$ <br> Therefore, the number of short mats needed to cover the playing field $=\frac{\text { Area of the playing field }}{\text { Area of a short mat }}$ $\begin{aligned} & =\frac{72 \mathrm{~m}^{2}}{1 \mathrm{~m}^{2}} \\ & =72 \text { short mats } \end{aligned}$ |  |  |  |




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|  | Answer: 34 chairs <br> c) What is the mean number of chairs rented over that period in May? <br> Answer: 558 chairs | Therefore, the number of chairs that were returned on Tuesday and Thursday altogether $\begin{aligned} & =306-204 \\ & =102 \end{aligned}$ <br> 306 - <br> 204 <br> 102 <br> Twice as many chairs were returned on Tuesday as were returned on Thursday. <br> Therefore, the number returned on Tuesday: $\begin{aligned} & =\frac{102}{2+1} \\ & =\frac{102}{3} \\ & =34 \end{aligned}$ <br> c) The mean number of chairs rented $\begin{aligned} & =\frac{\text { No. of chairs rented }}{\text { No. of days }} \\ & =\frac{113+367+258+969+1083}{5} \\ & =\frac{2790}{5} \\ & =558 \text { chairs per day } \end{aligned}$ |  |  |  |

## END OF TEST

