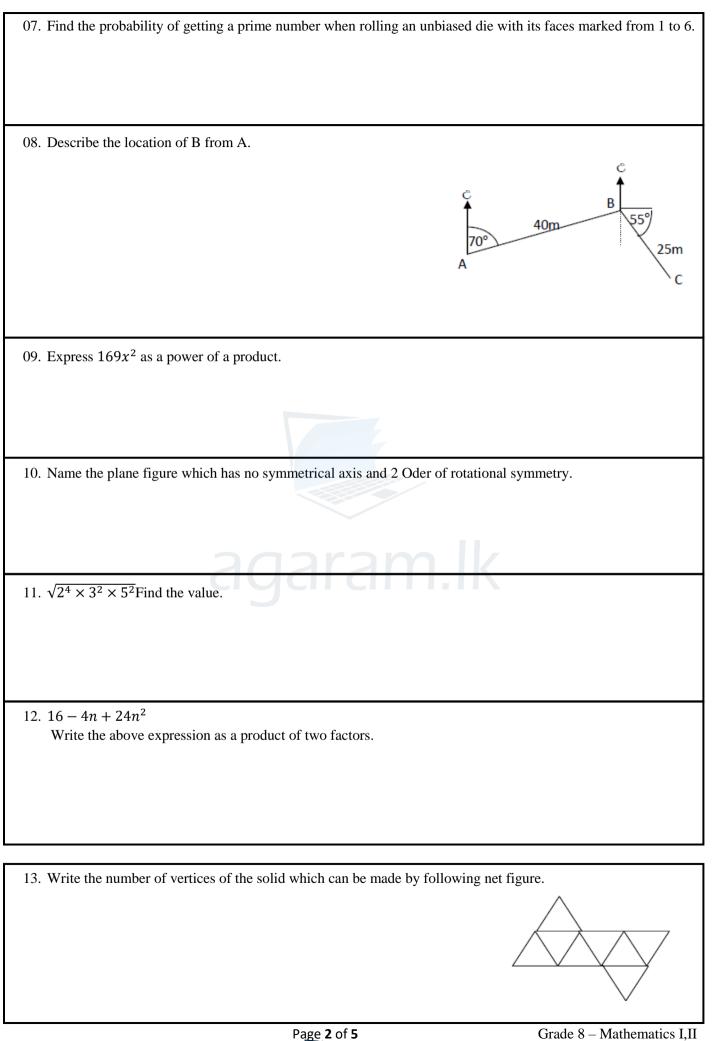




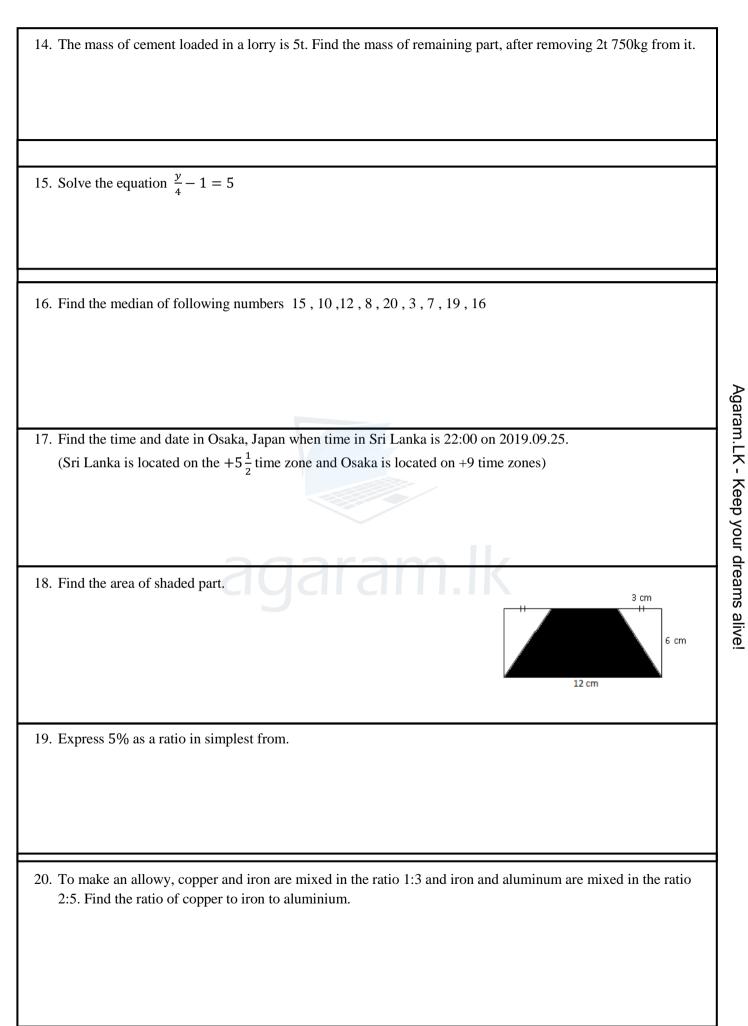
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Part II	
Answer the first question and four other questions Answer five questions in all.	
01.	
a) The number of units of electricity consumed by 30 families during one month is given below	ow.
76, 59, 43, 30, 41, 51, 61, 75, 80, 35,	
82, 32, 44, 45, 56, 61, 77, 85, 37, 46,	
53, 64, 71, 58, 65, 74, 68, 69, 72, 61,	
i. Represent this data in a stem and leaf diagram	(04)
ii. What is the minimum number of units that consumed?	(01)
iii. What is the maximum number of units that consumed?	(01)
iv. Find the range of this data.	(01)
v. Write the number of houses which has consumed less than 50 units as a fraction from the	total number
houses.	(02)
vi. An extra payment should be given by houses which consumed greater than 50 units. Show	v that there a
70% of houses should pay an extra payment.	(02)
b) A = {multiples of 3 less than 20}	
$B = \{$ the even numbers of 3579 $\}$	
i. Write the sets A and B with their elements.	(02)
ii. 10 A, put a suitable symbol in the blank.	(01)
iii. Write n (A) and n (B).	(02)
2.	
i. Draw a Cartesian plane where x- axis and the y- axis are marked from $+6$ to -6 .	(02)
ii. Mark the points with following coordinates and join all the points in the given order.	
(-2,4), $(6,4)$, $(4,0)$, $(6,-4)$, $(-2,-4)$, $(0,0)$	(04)
iii. Draw the axes of semmetry on the figure and write their eaquations.	(03)
iv. Write the coordinates of the point which the axes of semmetry are intersected each other.	(02)
3. i. Construct the APC triangle, with side lengths AP – form $PC - 8$ and $AC - 10$ am	(02)
i. Construct the ABC triangle, with side lengths AB =6cm ,BC = 8cm and AC = 10cm	(03)
ii. Write the magnitude of $A\hat{B}C$	(01)
iii. Write the name of the triangle due to the angle $A\hat{B}C$	(01)
iv. Mark the midpoint of AC as O	(01)
v. Draw a circle by taking OA as the radius.	(02)
vi. Write the special name of AC according to the circle.	(01)
vii. Colour a sector of the circle <i>BOC</i> on the circle that you constructed.	(02)

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The length, breadth and height of a cuboids shaped vessel are 45cm, 20cm and y cm. $\frac{1}{3}$ of vessel is filled 04. with water and that volume is $9000cm^3$. i. When $\frac{1}{3}$ of the vessel filled with water ,write the amount water using "y" (02)ii. Find the height of the vessel in cm (03)iii. Find the maximum volume of the vessel in l(02)iv. If the vessel is completely filled with water, how many 500ml bottles can be filled from the water in the vessel. (02)v. The production cost of a500ml water bottle is Rs.15.00 and its selling price is Rs.40.00, Find the profit gained by selling all the bottles. (02)05. ΠВ D i. Find the magnitude of following angles by giving reasons according to the given information from the figure. (02)Y = X =_____ (02)a = (01)ii. Find the magnitude of $E\widehat{D}A$ by giving resonous. (02)iii. Name a pair of complementary angles from the triangle ABC (02)iv. If AB = 9cm, BC = 8cm and AC = 12.04 cm, Find the area of the triangle ABC (02)06. a)Raheem's mother gave Rs.450 to him and told him to spend, $\frac{1}{3}$ on food, 10% on transport and remaining amount for buying a paper set. i. Find the amount of money spent on food. (01)(02)ii. How much he spent for travelling? iii. Write the amount of money which spent to buy the paper set as a percentage form the money that mother gave in a nearest whole number. (03)b) 80 m

Above figure shows a sketch of the locations of P, Q and R

- i. Draw a scale diagram of the triangle PQR representing 20m by 1 cm. (03)
- ii. Find the actual length of *PR* by using the Scale diagram.

Q

60 m



(02)

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