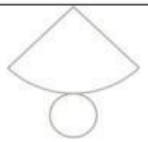
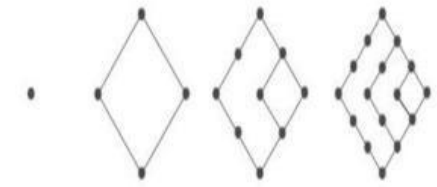
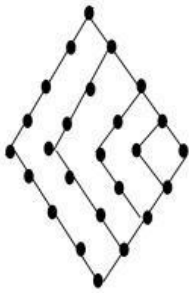
Q1	Sub-question	Model Answer	Marks (30 Marks)
MCQs	i	A $\frac{19}{5}$	2 Marks
	ii	B 12 + n = 20	2 Marks
	iii	B Scalene triangle	2 Marks
	iv	D 6	2 Marks
	v	D 	2 Marks
	vi	C 400KL	2 Marks
	vii	A Paro, Trashigang, Punakha and Samtse	2 Marks
	viii	C 2, 3, 5, 7, 11	2 Marks
	ix	C 22.8 kg	2 Marks
	x	B 36	2 Marks
	xi	A Paro	2 Marks
	xii	B 4 times	2 Marks
	xiii	D angle b: angle d: angle a: angle c	2 Marks
	xiv	B I and III	2 Marks
	xv	B 4	2 Marks

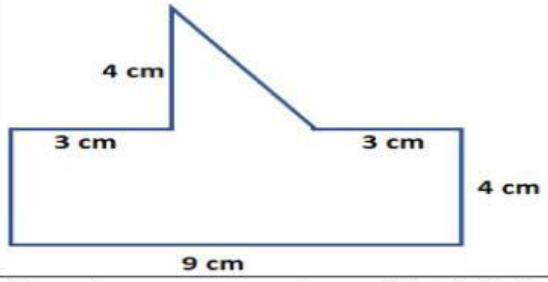
SECTION B [30 MARKS]

Q2a	How many dots will be there in figure 5? Draw figure 5. [2]  Figure 1 Figure 2 Figure 3 Figure 4 Figure 5	 There will be 25 dots in figure 5.	Drawing-1 mark 1 mark

LIVEWORKSHEETS

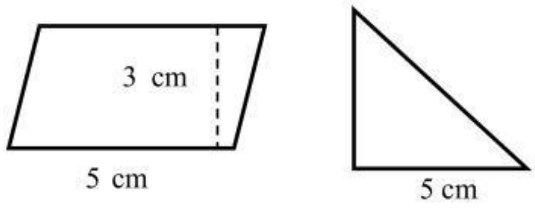
<table>
<tr>
<td>Q2b</td>
<td>Tshokey multiplied a number by 8 and got the product 40. [3]
i. Write the equation to show the above problem.
ii. Solve the problem.</td>
<td>i. 8n = 40

ii. 8n = 40
n = 40 ÷8 ----------
n = 5 ----------
So, n is 5.</td>
<td>1 mark

1 mark
1 mark</td>
</tr>
<tr>
<td>Q3a</td>
<td>Calculate the total area of the shape. [3]
 
</td>
<td>Area of △ = b × h ÷ 2
A = 3 × 4 ÷ 2
A= 12 ÷ 2 =6 cm² ----------
Area of ▭ = l × w
A = 9 × 4 = 36 cm² ----------
Total area = 6 + 36 = 42 cm² -----</td>
<td>

1 mark

1 mark

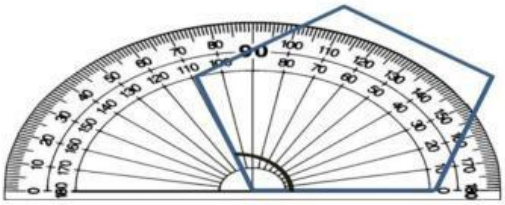
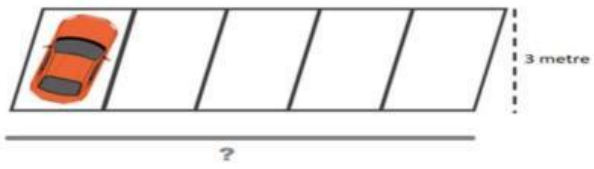
1 mark</td>
</tr>
<tr>
<td>Q3b</td>
<td>These shapes cover equal area. What is the height of a triangle? Show your work. [2]
 
</td>
<td>Area of ▱ = b x h
A = 5 x 3 = 15 cm² ----------
Area of △ = b × h ÷ 2
A = 5 x h ÷ 2
15 = 5 x 6 ÷2
= 30 ÷ 2 = 15 cm²
So, h is 6 cm ----------</td>
<td>
1 mark

1 mark</td>
</tr>
<tr>
<td>Q4a</td>
<td>The table shows number of students playing different games in one of the schools.
<table>
<tr><th>Games</th><th>Numbers</th></tr>
<tr><td>Football</td><td>20</td></tr>
<tr><td>Basketball</td><td>15</td></tr>
<tr><td>Volleyball</td><td>10</td></tr>
<tr><td>Badminton</td><td>13</td></tr>
<tr><td>Table tennis</td><td>12</td></tr>
</table>
Pema calculated the mean as 20 + 15 + 10 + 13 + 12 = 70
Do you agree with him? Support your answer with justification. [2]</td>
<td>No, I don't agree with Pema because mean should be the average of the set of the data where total should be divided by the number of values in the set.
So, mean is 70 ÷ 5 = 14 ----------</td>
<td>

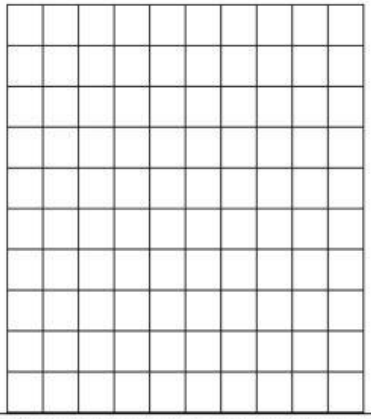
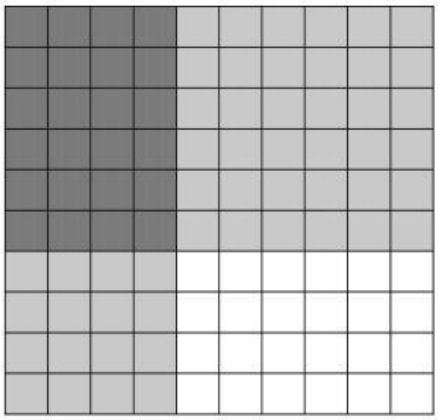
1 mark

1 mark</td>
</tr>
</table>

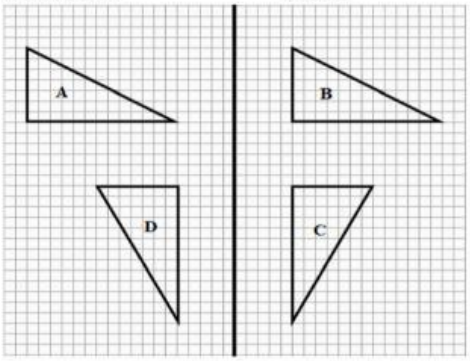
LIVEWORKSHEETS

Q4b	Create a set of numbers where the mean is equal to median and the median is less than the mode. (Mean = median < mode) [2]	Open ended question and the mark will be awarded according to the correctness of their answers. Sample response 1, 2, 3, 4, 6, 6, 6 ---------- Mean = 1 + 2 + 3 + 4 + 6 + 6 + 6 =28 ÷ 7 = 4 ---------- Median = 4 ---------- Mode = 6 ---------- So, Mean = Median < mode -----	0.5 mark 0.5 mark 0.5 mark 0.5 mark
Q4c	A boy measured one of the angles of a pentagon as 70 degree as shown.Do you think he measured the angle correctly? Give a reason to support your answer. [1] 	No, the boy did not measure the angle correctly as he read the wrong scale. The protractor shows the angle to be 110 degrees.	1 mark
Q5a	Dorji, a farmer sold 1.5 tonnes of potatoes and he got Nu 40 per kg. What is the total amount he got after selling the potatoes? [2]	1 tonne = 1000 kg 1.5 tonnes = 1.5 x 1000 = 1500kg 1 kg = Nu 40 1500kg = 1500 x 40 = 60,000 So, he got Nu 60,000	1 mark 1 mark
Q5b	Each car parking space covers an area of 6 m^2. What will be the length of 5 car parking space? [2] 	Area of each parking space is 6m^2 Area = l x w 6 = L x 3 6 = 2 x 3 So, L is 2 m The length of 5 car parking space = 2 x 5 = 10 m	1 mark 1 mark

LIVEWORKSHEETS

<table>
<tr>
<td>Q5c</td>
<td>Represent 0.4 x 0.6 on the grid and find the product. [1]
  </td>
<td> 
0.4 x 0.6 = 0.24</td>
<td>1 mark</td>
</tr>
<tr>
<td>Q6a</td>
<td>a) Bhutan imported commodities worth Nu 8.75 billion in 2024 from India. [2]
i. Write the figures in standard form.
ii. Write it in expanded form.</td>
<td>Standard form- 8,750,000,000

Expanded form- 8 billion + 7 hundred million + 5 ten million
OR
8 x 1000,000,000 + 7 x 100,000,000 + 5 x 10,000,000</td>
<td>1 mark

1 mark</td>
</tr>
<tr>
<td>Q6b</td>
<td>Which transformations are used to move Shape A to Shape B, Shape B to Shape C and Shape C to Shape D? [1.5]
 
</td>
<td><table><tr><th>Shape</th><th>Transformation</th></tr><tr><td>A to B</td><td>Translation</td></tr><tr><td>B to C</td><td>Rotation</td></tr><tr><td>C to D</td><td>Reflection</td></tr></table></td>
<td>0.5 mark

0.5 mark

0.5 mark</td>
</tr>
<tr>
<td>Q6c</td>
<td>Draw a triangle ABC, with AB = 5cm and ∠A and ∠B are 45^0. [1.5]</td>
<td>Correct 5 cm line segment ----------
Correct 45^0 angle of the triangle ------</td>
<td>0.5 mark
0.5 x 2 mark</td>
</tr>
</table>

LIVEWORKSHEETS

Q7a	The shapes given are the six faces of a 3-D object. What is the name of the object? [1] 	It is Pentagonal Pyramid OR Pentagon based Pyramid	1 mark
Q7b	Tshering and Pema are preparing tea. Tshering uses 2 sugar cubes for 3 cups of water and Pema uses 4 sugar cubes for 6 cups of water. [2] i.Who do you think used the higher ratio of sugar cubes to cup of water? ii.If Tshering wants to prepare tea using 9 cups of water, how many sugar cubes will he require?	Ratio = Suger : water Tshering- 2 : 3 = 4 : 6 (Equivalent) Pema- 4 : 6 = 2 : 3 (Simplify) Tshering and Pema has used equal ratio of sugar cube to cups of water. 3 cups = 2 sugar cubes 9 cups = 3 x 2 = 6 So, 6 cubes of sugar for 9 cups of water.	1 mark 1 mark
Q7c	Two students volunteered to clean the classroom. Student A cleaned $\frac{1}{3}$ and Student B cleaned $\frac{2}{5}$ of the floor. Which student cleaned more part of the classroom? Show your work. [2]	Make common denominator to compare the fractions. Student A = $\frac{1}{3} \times \frac{5}{5} = \frac{5}{15}$ Student B = $\frac{2}{5} \times \frac{3}{3} = \frac{6}{15}$ $\frac{5}{15} > \frac{6}{15}$ Student B cleaned more part of the class room. OR They can also compare the two fraction by drawing.	1 mark 1 mark

LIVEWORKSHEETS