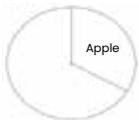


# MISMO 2022

## Rubrics for the Problem-solving Questions

S.no	Question	Marks	Details	Answer	3	2	1	0								
1.	In a sale, the price of a coat is reduced by 25%. The sale price is \$120. Calculate the price of the coat before the sale.	2	1 mark for correct working i.e. $\frac{(100 - 25)}{100} x = 120$ or equivalent and 1 mark for correct answer	\$160.	Students correctly write the equation for solving the situation and calculated the price of coat before sale correctly.	Students correctly write the equation for solving the situation however unable to calculate the price of coat before sale correctly.	Students are partially unable to correctly write the equation for solving the situation and unable to calculate the price of coat before sale correctly.	No evidence of attempting the problem								
2.	Mina earned Rs 6700. She spent Rs 3622 and saved the rest. How much more money did Mina save than spend?	3	1 marks for correct working of amount saved i.e. Rs 6700 – Rs 3622. 1 mark for correct difference in amount spent and saved and 1 mark for correct answer	Rs 544	Students correctly wrote the equation for finding the amount saved and calculated the amount spent and saved correctly.	Students correctly wrote the equation for finding the situation however unable to calculate the amount spent and saved correctly.	Students are partially able to correctly write the equation for finding the situation and unable to calculate the amount spent and saved correctly.	No evidence of attempting the problem								
3.	A group of 60 students were each asked their favourite fruits. The results are shown in the table below. <table border="1" data-bbox="219 1193 497 1316"> <thead> <tr> <th>Fruit</th> <th>Frequency</th> </tr> </thead> <tbody> <tr> <td>Apple</td> <td>20</td> </tr> <tr> <td>Banana</td> <td>25</td> </tr> <tr> <td>Orange</td> <td>15</td> </tr> </tbody> </table> Complete the pie chart to show the results. 	Fruit	Frequency	Apple	20	Banana	25	Orange	15	2	1 mark for correct calculation of angle sector i.e. $\frac{25}{60} \times 360^\circ$ and $\frac{15}{60} \times 360^\circ$ i.e., 1 mark for sector with correct angle drawn i.e., 90° or 150° seen	Sector 150° labelled banana Sector 90° labelled orange	Students correctly calculate the angle of a sector and complete the pie chart by correctly drawing the angles.	Students correctly calculate the angle of a sector and complete the pie chart by correctly drawing the angles.	Students are unable to calculate the angle of a sector and complete the pie chart by correctly drawing the angles.	No evidence of attempting the problem
Fruit	Frequency															
Apple	20															
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# MISMO 2022

## Rubrics for the Problem-solving Questions

S.no	Question	Marks	Details	Answer	3	2	1	0
4.	Mr. Mahad had 3 m of ribbon. He used $\frac{3}{5}$ m of ribbon to tie gift A and $\frac{1}{2}$ m of ribbon to tie gift B. How many meters of ribbon did Mr. Mahad have left?	3	1 mark for correct working of ribbon used i.e. $\frac{3}{5} + \frac{1}{2}$ or equivalent and 1 mark for correct working for ribbon left. $3\text{m} - \frac{11}{10}$ m and 1 mark for correct answer.	$1\frac{9}{10}$ m	Students correctly wrote the fraction for the ribbon used and calculated the ribbon left correctly.	Students correctly wrote the fractions for the ribbon used and unable to find the ribbon left correctly.	Students are partially able to correctly write the fractions for the ribbon used and ribbon left.	No evidence of attempting the problem
5.	Sana is going to her grandmother's house. Her car requires 22 litres of petrol to travel a distance of 264 km. She filled 36 litres of petrol in her car. Find the distance that the car can travel using 36 litres of petrol and the cost of travel at the rate of \$2 per litre.	3	1 mark for correct working of distance travelled with 1 litre of petrol i.e., 12 km or equivalent and 1 mark for correct working of distance travelled by 36 litres of petrol i.e., 432 km and 1 mark for correct answer of cost of 36 litres of petrol.	\$72	Students correctly calculated the distance travelled with 1 litre of petrol and working of distance travelled by 36 litres of petrol and cost of petrol.	Students correctly calculated the distance travelled with 1 litre of petrol and working of distance travelled by 36 litres of petrol and cost of petrol not calculated.	Students are partially calculated the distance travelled with 1 litre of petrol and working of distance travelled by 36 litres of petrol and cost of petrol.	No evidence of attempting the problem