

Self Assessment Model Paper 2 (2025-26)	
Maths - Grade 8	
Q. No.	Correct Answer/Rubric
1	D
2	D
3	B
4	D
5	C
6	C
7	C
8	A
9	B
10	A
11	C
12	A
13	A
14	B
15	A
16	<p>1) Award full marks if student did all steps correctly. Step1: Recognizes that the numbers form a sequence of consecutive odd numbers.(½ mark) Step2: Recalls the correct formula for sum of first odd numbers .(½ mark) Step3: Top half(up to 19)Counts the total number of terms correctly , $n = 10$, $10^2 = 100$, (½ mark) Remaining $n = 9$, $9^2 = 81$.(½ mark) Step4: Applies the formula correctly and finds the answer:(½ mark), $10^2 + 9^2 = 181$. 2) Award 1.5 marks if student did 3 steps correctly. 3) Award 1 mark if student did 2 steps correctly. 4) Award 0.5 marks if student did 1 step correctly or for final answer. 5) Award no marks if student did all four steps incorrectly or for other irrelevant answer.</p>
17	<p>1)Award 2 marks if student did all steps correctly. Step1: Prime factorization, $1728 = 2^6 \times 3^3$ (1/2 mark) Step2:Group into triples $= (2^3)^2 \times (3^2)$ (1/2 mark) Step3: Take cube root , cube root of $1728 = 2 \times 2 \times 3$.(1/2 mark) Step4: Final answer =12 (1/2 mark). 2)Award 1.5 marks if student did 3 steps correctly. 3)Award 1 mark if student did 2 steps correctly. 4)Award 0.5 marks if student did first 1 steps correctly. 5)Award no marks if student did all steps incorrectly or for any other irrelevant answer.</p>
18	<p>1)Award 4 marks if student did all steps did correctly. Step1: Finds $\sqrt{784} = 28$ rows and 28 columns (1 mark). Step2: New total = $784 + 18 = 802$ (1mark). Step3: Next perfect square = 841 (29×29)(1 mark) Step4: Additional students needed = $841 - 802 = 39$ mentions 802 is not a perfect square(1mark). 2)Award 3 marks if student did 3 steps did correctly. 3)Award 2 marks if student did 2 steps did correctly. 4)Award 1 mark if student did 1 step did correctly. 5)Award no marks if student did all steps did incorrectly or for any other irrelevant answer.</p>
19	<p>Award 4 marks if student did all steps correctly. Step1: Identifies Hockey Gear and Gym Equipment as equal (20%)(1 mark). Step2: Adds Basketball Kits (25%) + Swimming Equipment (15%) = 40% (1mark). Step3: Calculates total: $(\\$50,000)(100) \div (20) = \\$2,50,000$. Step4: Calculates 10% of $\\$2,50,000 = \\$25,000$(1mark). 2)Award 3 marks if student did 3 steps correctly. 3)Award 2 marks if student did 2 steps correctly. 4)Award 1 marks if student did 1 step correctly. 5)Award no marks if student did all steps incorrectly.</p>

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20	<p>A)</p> <p>1)Award full marks if student did four steps correctly. Step1:Correctly drawn bar graph with suitable scale and labels → 3 marks a).Title, axes labelled (1M) b).Bars drawn neatly and proportionally (1M) c).Correct scale used (1M) Step2: Highest and Lowest Highest: Samsung (58.0 million) (½M) Lowest: Oppo (25.1 million) (½M) Step3. Difference between Samsung and Oppo $58.0 - 25.1 = 32.9$ million → 2 marks (1M for subtraction, 1M for correct answer with unit) Step4. Total Shipments $58.0 + 46.4 + 42.5 + 27.1 + 25.1 = 199.1$ million → 2 marks (1M for correct addition steps, 1M for final answer with unit) 2)Award 3/4 marks if student did first three steps correctly. 3)Award 1/2 marks if student did first two steps correctly. 4)Award 1/4 marks if student did first step with one mistake 5)Award no marks if student did all steps incorrectly or for an irrelevant answer.</p> <p>B)</p> <p>1)Award full marks if student did all steps correctly. Step1: Bar graph (2M) Draw two axes; x-axis: Months (Jun–Oct), y-axis: Number of tickets. Choose a neat scale (e.g., 1 unit = 2000 tickets). Draw bars up to: 4000, 6000, 10000, 12000, 8000. Step2: Title: Monthly Tickets Sold for a Movie; label axes. Month with highest tickets Compare values → September has the highest: 12,000. (2M) Step3: Total tickets over five months (2M) $4000+6000+10000+12000+8000 = 40,000$ Step4: Adjustments (2M) July decreased by 400, $6000-400=5600$ $10000+0.12 \times 10000=10000+1200=11200$. 2)Award 3/4 marks if student did three steps correctly. 3)Award 1/2 marks if student did two steps correctly. 4)Award 1/4 marks if student did one step with some mistake. 5)Award no marks if student did all steps incorrect or for any irrelevant answer.</p>



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