

| Self Assessment Model Paper 2 (2025-26) | |
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| 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.</p> <p>Step1: Recognizes that the numbers form a sequence of consecutive odd numbers.(½ mark)</p> <p>Step2: Recalls the correct formula for sum of first odd numbers .(½ mark)</p> <p>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)</p> <p>Step4: Applies the formula correctly and finds the answer: (½ mark), $10^2 + 9^2 = 181$.</p> <p>2) Award 1.5 marks if student did 3 steps correctly.</p> <p>3) Award 1 mark if student did 2 steps correctly.</p> <p>4) Award 0.5 marks if student did 1 step correctly or for final answer.</p> <p>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.</p> <p>Step1: Prime factorization, $1728 = 2^6 \times 3^3$ (1/2 mark)</p> <p>Step2:Group into triples $= (2^3)^2 \times (3^3)$ (1/2 mark)</p> <p>Step3: Take cube root , cube root of $1728 = 2 \times 2 \times 3$.(1/2 mark)</p> <p>Step4: Final answer =12 (1/2 mark).</p> <p>2)Award 1.5 marks if student did 3 steps correctly.</p> <p>3)Award 1 mark if student did 2 steps correctly.</p> <p>4)Award 0.5 marks if student did first 1 steps correctly.</p> <p>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.</p> <p>Step1:Finds $\sqrt{784} = 28$ rows and 28 columns (1 mark).</p> <p>Step2:New total = $784 + 18 = 802$ (1mark).</p> <p>Step3:Next perfect square = 841 (29×29)(1 mark)</p> <p>Step4:Additional students needed = $841 - 802 = 39$ mentions 802 is not a perfect square(1mark).</p> <p>2)Award 3 marks if student did 3 steps did correctly.</p> <p>3)Award 2 marks if student did 2 steps did correctly.</p> <p>4)Award 1 mark if student did 1 step did correctly.</p> <p>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.</p> <p>Step1: Identifies Hockey Gear and Gym Equipment as equal (20%)(1 mark).</p> <p>Step2:Adds Basketball Kits (25%) + Swimming Equipment (15%) = 40% (1mark).</p> <p>Step3:Calculates total: $(\text{₹}50,000)(100) \div (20) = \text{₹}2,50,000$.</p> <p>Step4:Calculates 10% of $\text{₹}2,50,000 = \text{₹}25,000$(1mark).</p> <p>2)Award 3 marks if student did 3 steps correctly.</p> <p>3)Award 2 marks if student did 2 steps correctly.</p> <p>4)Award 1 marks if student did 1 step correctly.</p> <p>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.</p> <p>Step1:Correctly drawn bar graph with suitable scale and labels → 3 marks</p> <p>a).Title, axes labelled (1M)</p> <p>b).Bars drawn neatly and proportionally (1M)</p> <p>c).Correct scale used (1M)</p> <p>Step2: Highest and Lowest Highest: Samsung (58.0 million) (½M) Lowest: Oppo (25.1 million) (½M)</p> <p>Step3. Difference between Samsung and Oppo $58.0 - 25.1 = 32.9$ million→ 2 marks (1M for subtraction, 1M for correct answer with unit)</p> <p>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)</p> <p>2)Award 3/4 marks if student did first three steps correctly.</p> <p>3)Award 1/2 marks if student did first two steps correctly.</p> <p>4)Award 1/4 marks if student did first step with one mistake</p> <p>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.</p> <p>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.</p> <p>Step2: Title: Monthly Tickets Sold for a Movie; label axes. Month with highest tickets Compare values → September has the highest: 12,000. (2M)</p> <p>Step3:Total tickets over five months (2M) $4000+6000+10000+12000+8000 = 40,000$</p> <p>Step4: Adjustments (2M) July decreased by 400 , $6000-400=5600$ $10000 \times 0.12 = 10000-1200=11200$.</p> <p>2)Award 3/4 marks if student did three steps correctly.</p> <p>3)Award 1/2 marks if student did two steps correctly.</p> <p>4)Award 1/4 marks if student did one step with some mistake.</p> <p>5)Award no marks if student did all steps incorrect or for any irrelevant answer.</p> |

