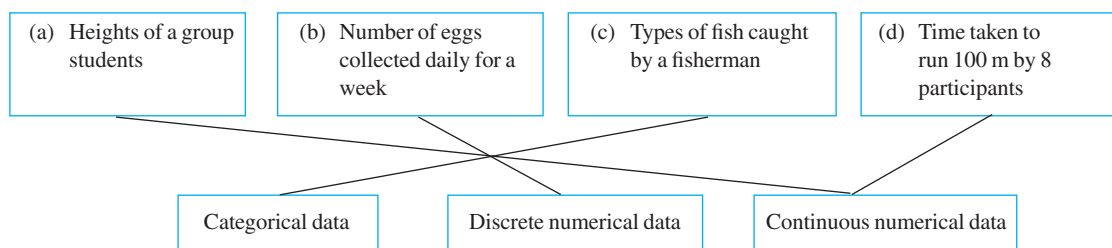**FORM 1**

CHAPTER 12

Summative Practice

Section A

1. Answer: **A**
2. Answer: **C**
3. Answer: **B**
4. Answer: **D**
5. Answer: **C**
6. Answer: **D**
7. Rate of increase of her height is the highest when her age is (13 – 14) years old. (steepest slope)
   Answer: **C**
8. Answer: **B**
9. Answer: **B**
10. Jia Lin : Mary $= 80 : 120$
    $\qquad\qquad\quad = 2 : 3$
    Answer: **A**

Section B

1.

| (a) Heights of a group students | (b) Number of eggs collected daily for a week | (c) Types of fish caught by a fisherman | (d) Time taken to run 100 m by 8 participants |

| Categorical data | Discrete numerical data | Continuous numerical data |

2. (a) The total number of data is

| 13 | 14 | 15 | (16) |

   (b) The extreme data is

| (5) | 8 | 11 | 13 |

   (c) The mark with the highest frequency is

| 10 | (11) | 12 | 13 |

   (d) The difference between the frequencies for marks 8 and 12 is

| 1 | (2) | 3 | 4 |

Section C

1. (a) Histogram
   (b) $5 + 12 + 15 + 24 + 18 + 6 = 80$
      ∴ Total number of vehicles in the survey $= 80$
   (c) The highest frequency (24 vehicles) is when the speed is 70 km/h.
   (d) There are 6 vehicles with speed more than 80 km/h.
      ∴ Percentage of drivers who will get booked $= \dfrac{6}{80} \times 100 = 7.5\%$
   (e) There are $(5 + 12)$ vehicles with speed less than 60 km/h.
      ∴ Percentage of vehicles which move at speed less than
      60 km/h $= \dfrac{17}{80} \times 100 = 21.25\%$