

1. Answer: 6  
Expanding:  $10y - 20 + 3x - 4y - 7 = 0$   
Simplifying:  $6y + 3x - 27 = 0$
2. Answer: On a line parallel to the x-axis  
If the ordinates (y-coordinates) are the same, the points are horizontally aligned, forming a line parallel to the x-axis.
3. Answer: Supplementary angles  
Two angles adding up to  $180^\circ$  are defined as supplementary angles.
4. Answer: 120 cm  
The semi-perimeter formula:  $s = (a+b+c)/2$   
Since  $s - a = 10$ ,  $s - b = 20$ ,  $s - c = 30$ , adding all gives  $3s - (a+b+c) = 60$ , solving for  $s$  gives 60, making the perimeter 120 cm.
5. Answer: 30 cm  $s = (15+20+25)/2 = 30$
6. Answer: There were about 60-70 visitors for 5 days at the museum.
7. Answer:  $TO = OS$   
To use the SSS (Side-Side-Side) or SAS (Side-Angle-Side) congruence theorem, knowledge of corresponding side lengths is necessary.
8. Answer: All of the above
9. Answer: The conclusion about the congruency of triangles can be made if length of the side MN, MQ or NQ of  $\triangle MNQ$  is known.  
Without knowing the length of sides of Triangle MNQ, none of the congruence rules are applicable.
10. The value of 'a' becomes less than '2b'.
11.  $115$  degrees  $x+x+10+120 = 360$  (since sum of angles around a corner is 360) .
12. 1 unit = 100 People  
Observing the spacing and values on the y-axis (For eg. For B, the spacing is 7 and the population is 700, so each unit is equal to 100 people, similarly it can be verified for others).