PSBB LEARNING LEADERSHIP ACADEMY BANGALORE

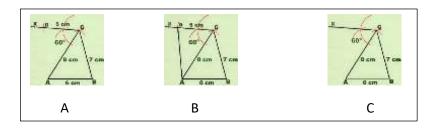
CLASS 8 MATHEMATICS WA5-23/07/2021

Objective type

- 1) _____sketch gives the idea of construction of any diagram.
- 2) We cannot construct an angle of 105⁰ with compass. [True/False]
- 3) A rhombus can be constructed if one side and one angle is given. [True/False]
- 4) A quadrilateral can be constructed if all the four angles and a diagonal is given. [True/False]
- 5) Construct a quadrilateral *ABCD* in which AB = 6 cm, BC = 7 cm, CD = 5 cm, AC = 8 cm and ACD = 60°. Solution:



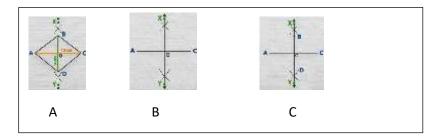
Which of the following should be the next step of construction?



6] Construct a rhombus ABCD in which AC = 12 cm and BD = 9 cm. Solution:



Which of the following should be the second step of construction?



- 7] Construct a square with a diagonal 5 cm. Find the side of the square.
- 8] Construct a kite ABCD, AB = 4cm, BC = 4.9 cm, and AC = 7.2 cm.
- 9] Construct a quadrilateral ,where AB = 6.5 cm, BC = 4.8 cm, CD = 8.5 cm, $\angle B = 75^{\circ}$, and $\angle C = 98^{\circ}$.
- 10] Construct a trapezium PQRS, PQ \parallel SR, PQ= 6cm, QR= PS = 3cm, 5R = 5cm and $\angle SPQ = 70^{\circ}$. Measure the remaining angles and write its unique property.
- 11] Draw a line, take a point M. Construct the following angles at M. 135°, 105°, 90° and 60°.
- 12] Construct a rectangle RECT with RE = 8 cm, RC= 10cm.