



# INDIAN SCHOOL AL WADI AL KABIR

Class VIII, Mathematics (2022-23)

## Worksheet DTQ –PRACTICAL GEOMETRY

### SHORT ANSWER TYPE QUESTIONS- 7 QUESTIONS. (2 Marks each)

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| Q1. | Construct a quadrilateral ABCD in which $AB = 4.5$ cm, $BC = 5.5$ cm, $CD = 4$ cm, $AD = 6$ cm and $AC = 7$ cm.         |
| Q2. | Construct a square FAST with side 5.5 cm.   |
| Q3. | Construct a rhombus BEST in which $BE = 4.5$ cm and $ET = 6$ cm.  |
| Q4. | Construct a quadrilateral ABCD in which $AB = 3$ cm, $BC = 4.2$ cm, $CD = 3.5$ cm, $DA = 5$ cm and diagonal AC is 6 cm. |
| Q5. | Construct a rhombus with diagonals 8 cm and 6 cm.   |
| Q6. | Construct a rectangle PARK with $PA = 7.5$ cm and $AR = 6$ cm   |
| Q7. | Construct a square in which each diagonal is 5 cm.  |

### SHORT ANSWER TYPE- 5 QUESTIONS. (3 Marks each)

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| Q8.  | Construct a quadrilateral PQRS in which $PQ = 3.5$ cm, $QR = 6.5$ cm, $\angle P = 100^\circ$ , $\angle R = 110^\circ$ and $\angle S = 75^\circ$ . |
| Q9.  | Construct a parallelogram HOME where $HO = 6$ cm, $HE = 4$ cm and $OE = 3$ cm.  |
| Q10. | Construct a rectangle whose one side is 3 cm and diagonals equal to 5 cm.   |
| Q11. | Construct a quadrilateral BOLD with $BO = 4$ cm, $OL = 3$ cm, $DB = 2.5$ cm, $BL = 4.5$ cm and $OD = 4$ cm  |
| Q12. | Construct a parallelogram BEAR in which $BE = 5$ cm, $EA = 6$ cm, $\angle R = 85^\circ$   |

### LONG ANSWER TYPE- 3 QUESTIONS. (4 Marks each)

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| Q13. | Construct a quadrilateral ABCD in which $AB = BC = 3$ cm, $AD = 5$ cm, $\angle A = 90^\circ$ and $\angle B = 105^\circ$ .  |
| Q14. | Construct a quadrilateral PQRS in which $\angle Q = 45^\circ$ , $\angle R = 90^\circ$ , $QR = 5$ cm, $PQ = 4$ cm, and $RS = 3$ cm.   |
| Q15. | Construct a quadrilateral ABCD with two adjacent sides as $AB = 3.5$ cm and $BC = 6.5$ cm and its three angles are $\angle A = 75^\circ$ , $\angle B = 105^\circ$ , and $\angle C = 120^\circ$ . |