

**BCM SCHOOL ,BASANT AVENUE ,DUGRI ROAD ,LUDHIANA**

CLASS : IX

SUBJECT – MATHEMATICS

CHAPTER - QUADRILATERAL

ASSIGNMENT- 2

Q1 If angles A, B, C and D of the quadrilateral ABCD, taken in order, are in the ratio 3:7:6:4, then ABCD is a

(a) Kite (b) Rhombus (c) Parallelogram (d) Trapezium

Q 2 Which of the following is not true for a parallelogram?

- (a) Opposite sides are equal
- (b) Opposite angles are equal
- (c) Opposite angles are bisected by the diagonals
- (d) Diagonals bisect each other

Q3 The figure obtained by joining the mid-points of the sides of a rhombus, taken in order, is

(a) a rhombus (b) a rectangle (c) a square (d) any parallelogram

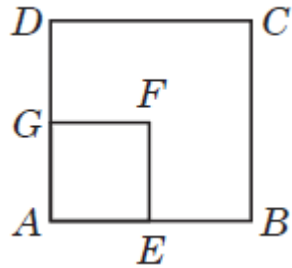
Q4 Assertion : A diagonal of parallelogram divide it into two congruent triangle

Reason : In a parallelogram opposite angle are not equal

- a) both Assertion and reason are correct and reason is correct explanation for Assertion.
- b) both Assertion and reason are correct but reason is not correct explanation for Assertion.
- c) Assertion is correct but reason is false.
- d) both Assertion and reason are false.

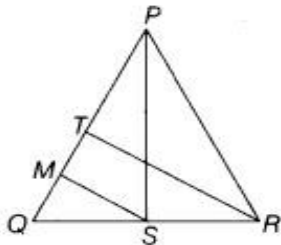
Q5 ABCD and AEFG are two parallelograms. If  $\angle C = 63^\circ$  then determine  $\angle G$





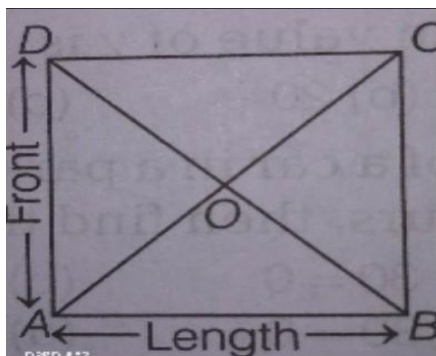
Q6 In a parallelogram show that the angle bisectors of two adjacent angles intersect at right angles.

Q7 In the figure, PS, and RT are medians of  $\triangle PQR$  and  $SM \parallel RT$ .



Prove that  $QM = \frac{1}{4} PQ$

Q7 Pawan is studying in 9<sup>th</sup> standard. His father purchased a plot which is in a square shape as shown in figure. After visiting the land few questions came in his mind. Give answers to his questions by looking at the figure.



(i) If  $OA = 3\text{cm}$  then value of  $OC$  is

(ii) If the side of the plot is  $65\text{m}$  How much wire will be needed to fence the plot

(iii) Prove that  $\triangle DAB \cong \triangle CBA$





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