



MATHS

BOOKS - NAVNEET PUBLICATION

QUADRILATERAL : CONSTRUCTION AND TYPES

Question Bank

1. Construct \square PQRS such that $l(PQ) = 5.5$ cm, $l(QR) = 5$ cm, $l(PS) = 4.2$ cm, $l(QS) = 6.1$ cm and $l(RS) = 7$ cm.



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2. Construct \square WXYZ such that $l(YZ) = 3.9$ cm, $l(ZX) = 6$ cm, $l(WX) = 4.5$ cm, $l(zw) = 5$ cm and $l(YW) = 6.4$ cm.

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3. Construct \square ABCD such that $l(AB) = 4.4$ cm, $l(BC) = 5.5$ cm, $m\angle A = 65^\circ$, $m\angle B = 100^\circ$ and $m\angle C = 100$

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4. Construct \square PQRS such that $l(QR) = 4.9$ cm, $l(RS) = 6.2$ cm, $l(SP) = 3.9$ cm, $m\angle R = 60^\circ$ and $m\angle S = 75^\circ$.

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5. In \square MORE, $l(MO) = 5.8$ cm, $l(OR) = 4.4$ cm,
 $m\angle M = 58^\circ$, $m\angle O = 150^\circ$, $m\angle R = 90^\circ$.



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6. Construct \square DEFG such that $l(DE) = 4.5$ cm, $l(EF) =$
 6.5 cm, $l(DG) = 5.5$ cm, $l(DF) = 7.2$ cm, $l(EG) = 7.8$ cm.



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7. In \square ABCD $l(AB) = 6.4$ cm, $l(BC) = 4.8$ cm,
 $m\angle A = 70^\circ$, $m\angle B^\circ$, $m\angle C = 140^\circ$.

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8. Construct \square LMNO, such that $l(LM) = l(LO) = 6$ cm, $l(ON) = l(NM) = 4.5$ cm, $l(OM) = 7.5$ cm,

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9. Draw a tringle ABCD such that $l(AB) = 6$ cm and $l(BC) = 4.5$ cm.

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10. Draw a square WXYZ with side 5.2 cm.

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11. Draw a rhombus $KLMN$ such that its side is 4 cm and $m\angle K = 75^\circ$.

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12. If diagonal of a rectangle is 26 cm and one side is 24 cm, find the other side.

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13. Lengths of diagonals of a rhombus ABCD are 16 cm and 12 cm. Find the side and perimeter of the rhombus.

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14. Find diagonal of square with side 8 cm.

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15. Measure of one angle of a rhombus is 50° find the measures of remaining three angles.

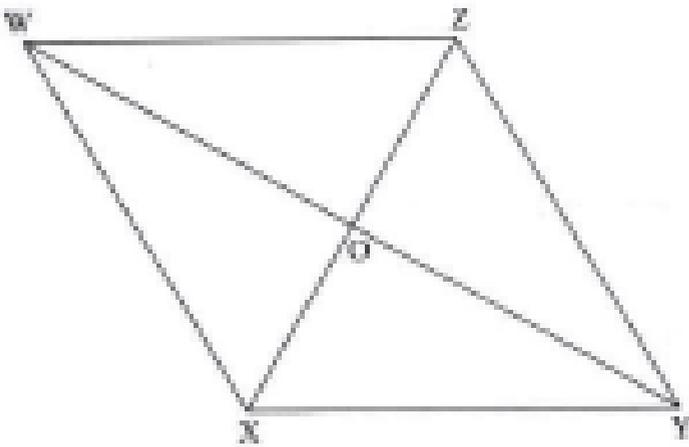
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16. Measures of opposite angles of a parallelogram are $(3x - 2)^\circ$ and $(50 - x)^\circ$. Find the measure of its each angle.



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17. Referring to the given figure of a parallelogram , write the answers of question given below :

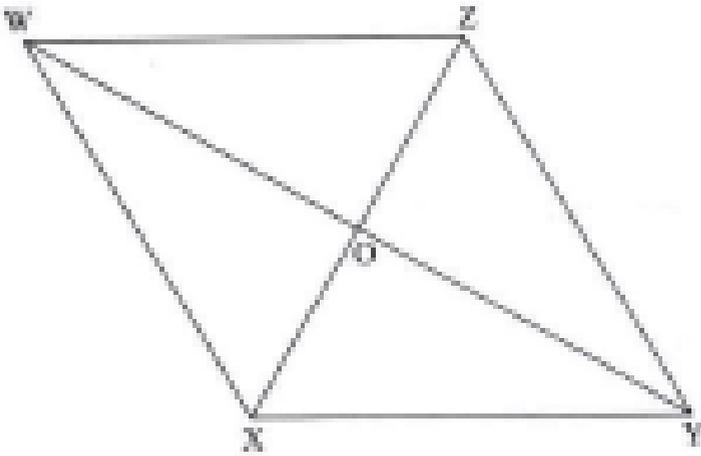


If $|YZ| = 8.2$ cm then $|XW| = ?$



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18. Referring to the given figure of a parallelogram ,
write the answers of question given below :



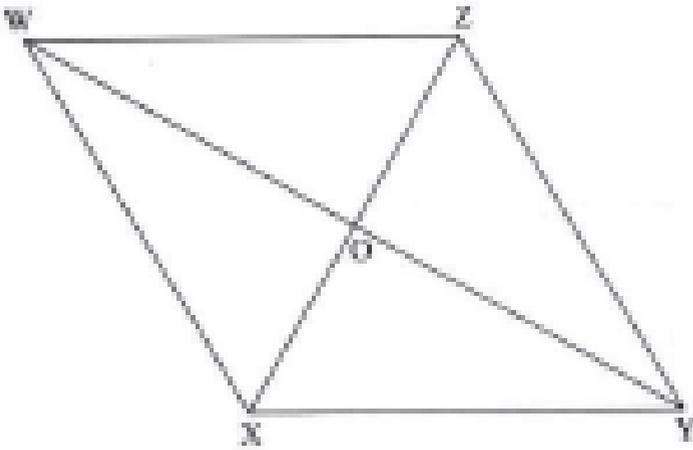
If $|OX| = 2.5$ cm then $|OZ| = ?$



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19. Referring to the given figure of a parallelogram ,
write the answers of question given below :

Below :



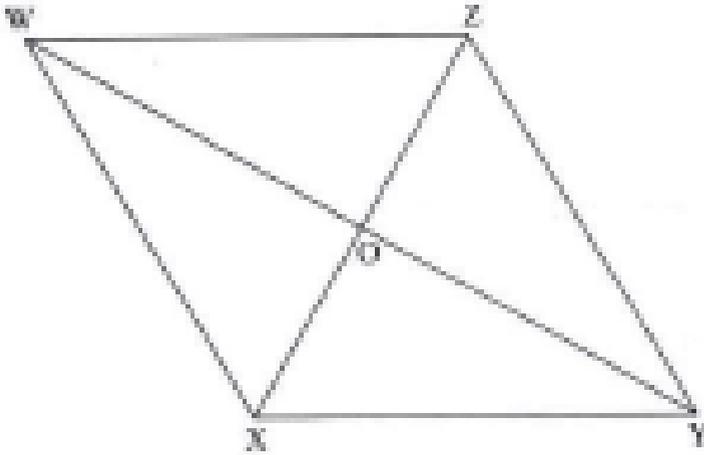
If $(WO) = 3.3$ cm then $|(WY) = ?$



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20. Referring to the given figure of a parallelogram ,
write the answers of question given below : If
 $m\angle WZY = 120^\circ$ then $m\angle WXY = ?$ And

$$m\angle XWZ = ?$$



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21. Construct a parallelogram ABCD such that $l(BC) = 7\text{cm}$, $m\angle ABC = 40^\circ$, $l(AB) = 3\text{cm}$.

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22. Ratio of consecutive angles of quadrilateral is 1 : 2 : 3 : 4. Find the measures of its each angle.

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23. Construct \square BARC such that $l(BA) = l(BC) = 4.2$ cm, $l(AC) = 6$ cm, $l(AR) = l(CR) = 5.6$ cm.

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24. Construct \square PQRS

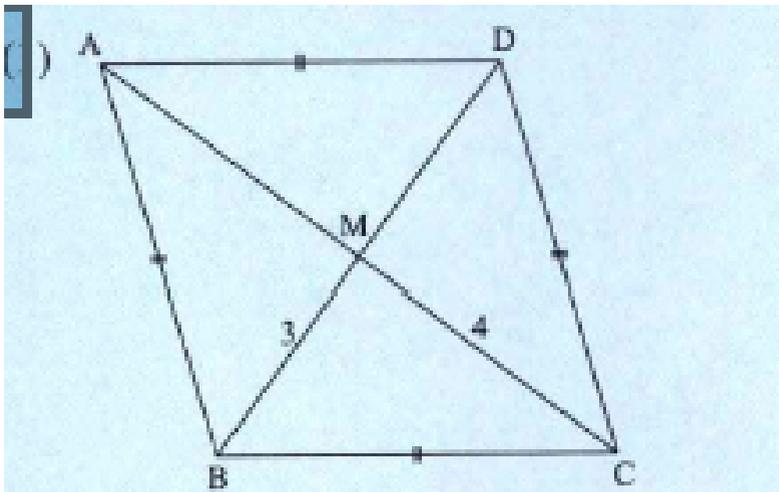
such that $l(PQ) = 3.5$ cm, $l(QR) = 5.6$ cm, $l(RS) = 3.5$ cm,

$m\angle Q = 110^\circ$, $m\angle R = 70^\circ$ If it is given that \square

PQRS is a parallelogram, which of the given information is unnecessary?

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25. answer the following question:



In the figure, $\square ABCD$ is a rhombus.
If $l(BM) = 3$ and $l(MC) = 4$, then
perimeter of $\square ABCD$ is

A. 16

B. 12

C. 20

D. 48

Answer: C



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26. Which of the following properties is incorrect?

Diagonals of a parallelogram bisect each other.

Diagonals of a rectangle are congruent

Diagonals of a rhombus are perpendicular to each other.

Diagonals of a kite are perpendicular bisectors to each other.

A. 3

B. 2

C. 1

D. 4

Answer: D



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27. If the adjacent sides of a parallelogram are 4 cm and 6 cm. then its perimeter is

A. 16 cm

B. 20 cm

C. 24 cm

D. 15 cm

Answer: B



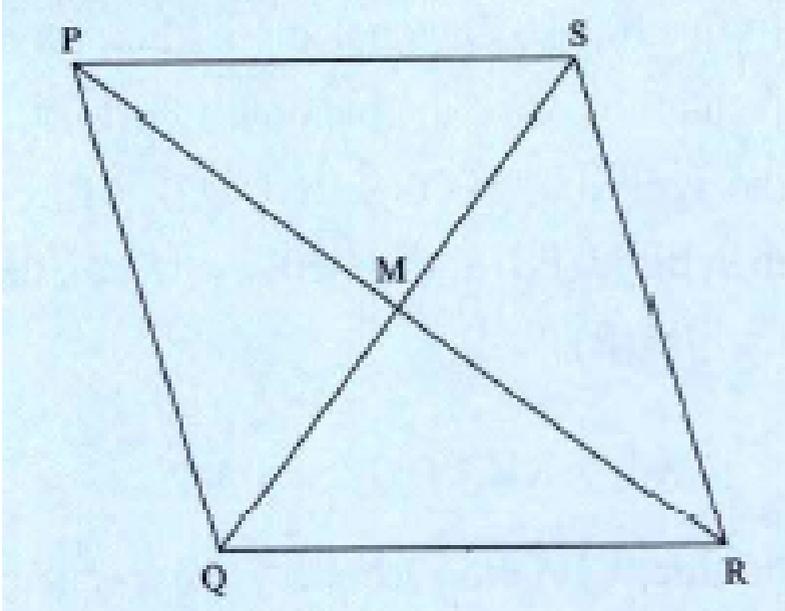
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28. \square ABCD is a parallelogram. If $m\angle A = 50^\circ$, then find $m\angle B$ and $m\angle C$.



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29. \square PQRS is a rhombus. Diagonals PR and QS intersect at M. If $|QM| = 6$ cm, and $|MR| = 8$ cm, then find the side of the rhombus.



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31. State the diagonal property of a rectangle and a rhombus.

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32. Construct $\triangle PQR$ such that $l(PQ) = 7$ cm, $l(QR) = 8$ cm and $l(PR) = 9$ cm.

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33. Construct square of side 4 cm.

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34. If the adjacent sides of a rectangle are 60 cm and 11 cm, then find the length of its diagonals.

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35. Find the perimeter of a square of side 10 cm. Justify your steps.

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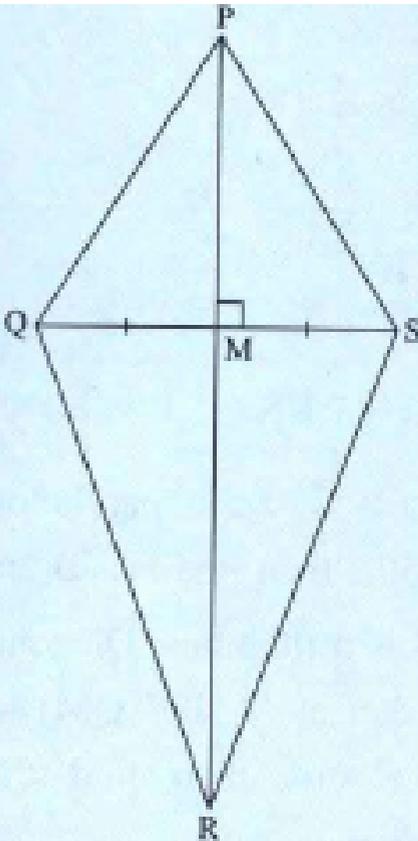
36. If the adjacent sides of rectangle are each of length 12 cm , then identify the type of rectangle and hence

find its perimeter.



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37. Find the length of QR for the given figure



In the figure, diagonal PR is the perpendicular bisector of diagonal QS. Identify the type of \square PQRS. If $l(PQ) = 10$ cm, then find $l(PS)$ and if $l(SR) = 15$ cm, then find $l(QR)$.



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38. Construct $\square PQRS$ such that $l(PQ) = 5.8$ cm, $l(QR) = 5.7$ cm, $l(PS) = 4$ cm, $l(RS) = 7.1$ cm and $l(QS) = 6.3$ cm.



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39. Construct quadrilateral $MNOP$ such that $l(MN) = 4$ cm, $l(NO) = 5.5$ cm, $l(OP) = 5$ cm, $l(NP) = 6.3$ cm and $l(MO) = 5$ cm.



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40. Construct \square ABCD such that $l(AB) = 5.5$ cm, $l(BC) = 4.6$ cm, $m\angle A = 50^\circ$, $m\angle B = 120^\circ$ and $m\angle C = 90^\circ$.



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41. Construct \square PQRS such that $l(QR) = 5.2$ cm, $m\angle R = 73^\circ$, $l(RS) = 6$ cm, $m\angle S = 70^\circ$ and $l(PS) = 4.3$ cm,



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42. Draw a rhombus $KLMN$ such that its side is 5 cm and $m\angle K = 60^\circ$.

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43. Draw a rectangle $PQRS$ such that $l(PQ) = 5.3$ cm and $l(QR) = 6.8$ cm.

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44. Construct a parallelogram $ABCD$ such that $l(BC) = 6.3$ cm, $m\angle ABC = 45^\circ$ and $l(AB) = 4$ cm.

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45. The ratio of the measures of angles of a quadrilateral in order is $7 : 9 : 3 : 5$ then find the measures of its angles

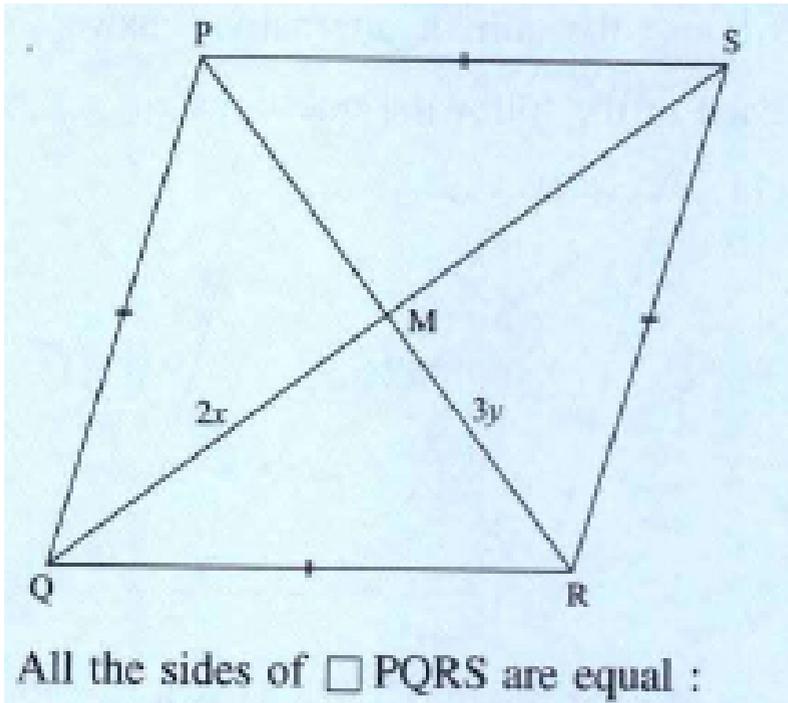


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46. Measures of adjacent angles of a parallelogram are $(3x + 30)^\circ$ and $(10x - 45)^\circ$ then find the measures of the angles of parallelogram.



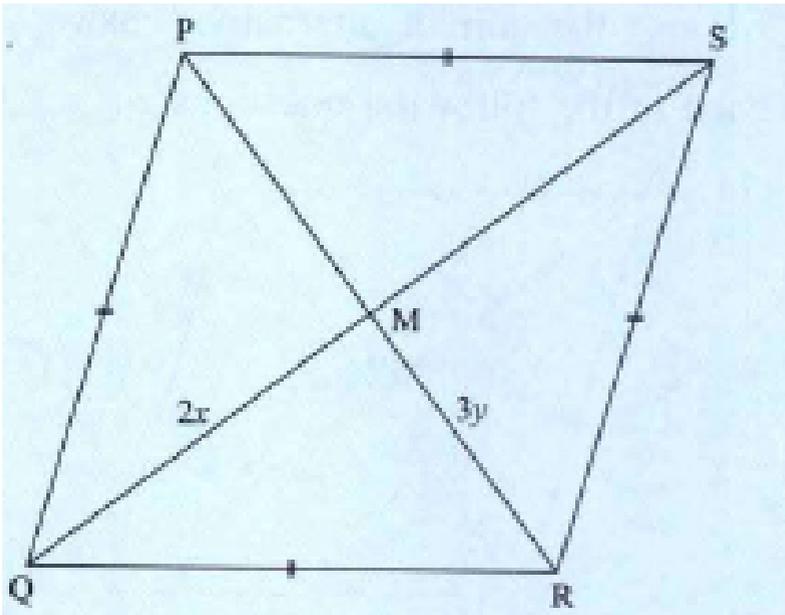
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47. All the sides of \square PQRS are equal :

IF $|QS| = 24$ and $|QM| = 2x$ then find x .

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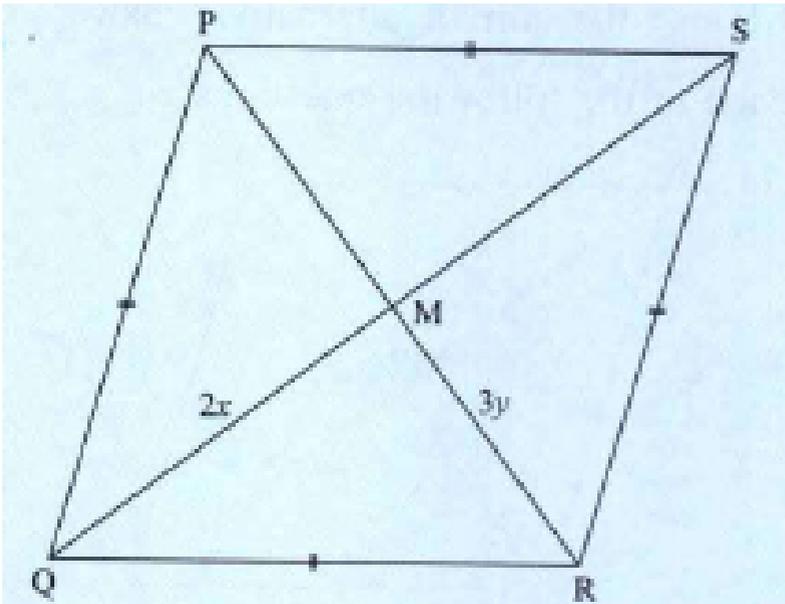


48. All the sides of $\square PQRS$ are equal :

If $|PR| = 18$ and $|MR| = 3y$ then find y



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49. All the sides of \square PQRS are equal :

If $x=6\text{cm}$ and $y=3\text{cm}$ Find perimeter of \square PQRS.

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50. Find the length of the diagonal of square of side 20 cm.



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