



Grade 11

Mathematics

Second Term – Unit Test

11) <u>Midpoint Theorem</u>

<u>Part I</u>

1. In the triangle XYZ, XY=10cm,XZ=8cm and YZ=6cm. A,B and C are the mid points of XY, XZ and YZ respectively. Find the perimeter of the triangle ABC



2. In the triangle ABC, AC=18cm, BC=16cm and the perimeter of triangle ABC is 58cm. X and Y are the mid points of AC and BC respectively. Find the length of XY.



An equilateral triangle PQR of side length 20cm is represented in the given figure. The mid points of PQ and QR are A and B respectively. Find the perimeter of the quadrilateral ABRP.

According to the data given in the figure, find the value of a.





9. ABC is an isosceles triangle, P,Q and R are mid points of AB, AC and BC respectively. If the perimeter of the triangle ABC is 36cm, find the perimeter of the triangle PQR.

10. PQRS is a square. A,B,C and D are the mid points of the sides PQ,QR,SR and SP respectively.

If the length of SQ is 12cm, find the perimeter of the quadrilateral ABCD



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1) In the triangle PQR shown in the figure, PT is Perpendicular bisector of QR and QS is the perpendicular bisector of PR. The straight line through R drawn parallel to QS meets PT produced at V. QS and PT intersect at u.





PQR is a triangle, S is the mid-point of PQ. A line drawn through S parallel to RQ meets PR at U and a line drawn through S, parallel to PR meets RQ at T.

i. Draw a figure and mark the given information in it.
ii. Show that,
$$UT = \frac{1}{2}PQ$$

XYZ is an isosceles triangle and XZ=XY. The side XY is produced to S such that
QZ=YS. If QP//ZY. Show that,
i. PY = YS
ii. YZ = 4RY

