



Grade 9 - Mathematics

Constructing Geometric Figures 2

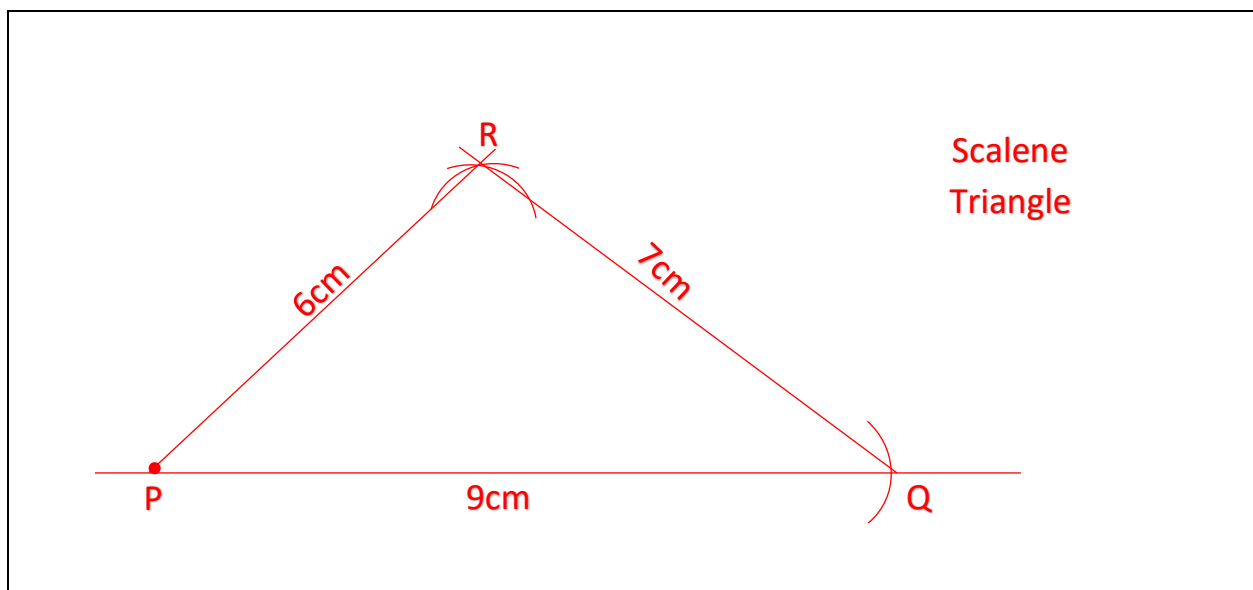
Memo



Read through the following instructions and construct the figures.

Remember to label all the parts of your diagram.

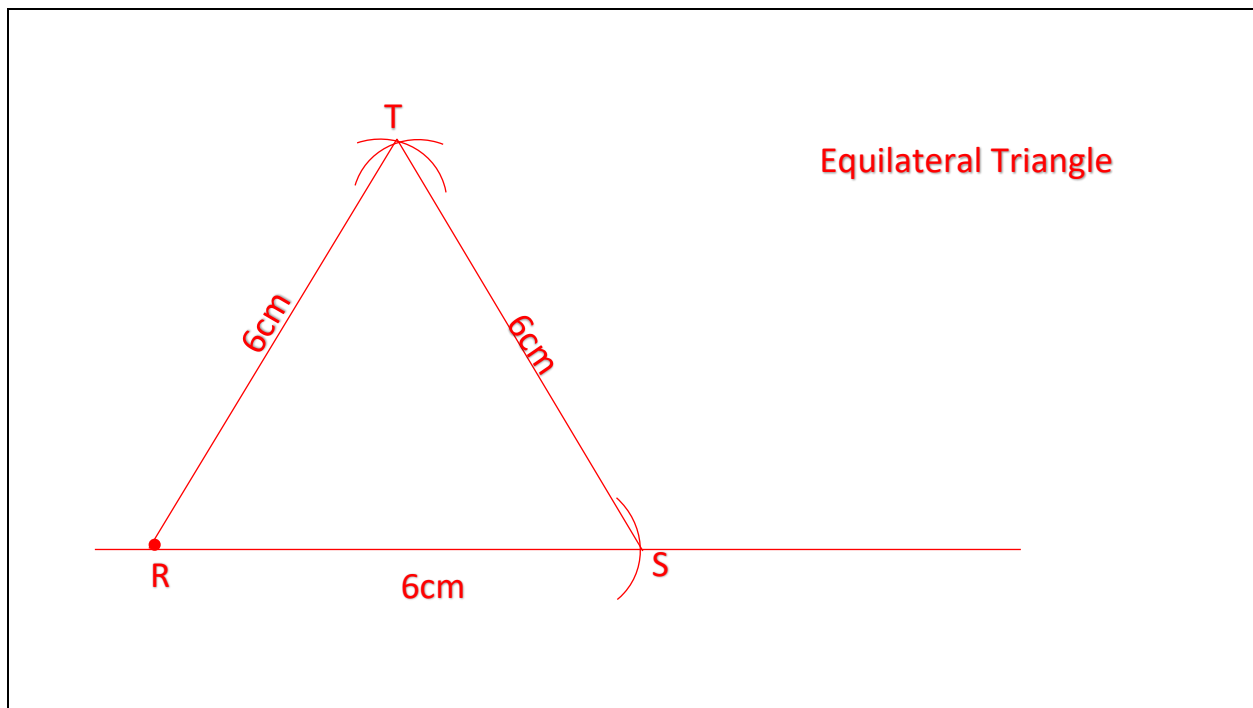
- Using a ruler, draw a line about 11cm long. Mark a point P on the left side of the line.
 - Using your compass, measure a length 9cm on your ruler. Placing your compass point at point P, draw an arc which cuts the line at point Q so that PQ is 7cm.
 - Using your compass, measure a length 6cm on your ruler. Placing your compass point at point P, draw an arc which is 6cm above the line somewhere between point P and point Q.
 - Using your compass, measure a length 7cm on your ruler. Placing your compass point at point Q, draw an arc which is 5cm above the line somewhere between point P and point Q, so that it cuts the other arc you have drawn. Label this point R.
 - Use your ruler and join point P to point R.
 - Use your ruler and join point Q to point R.
 - Name your triangle.





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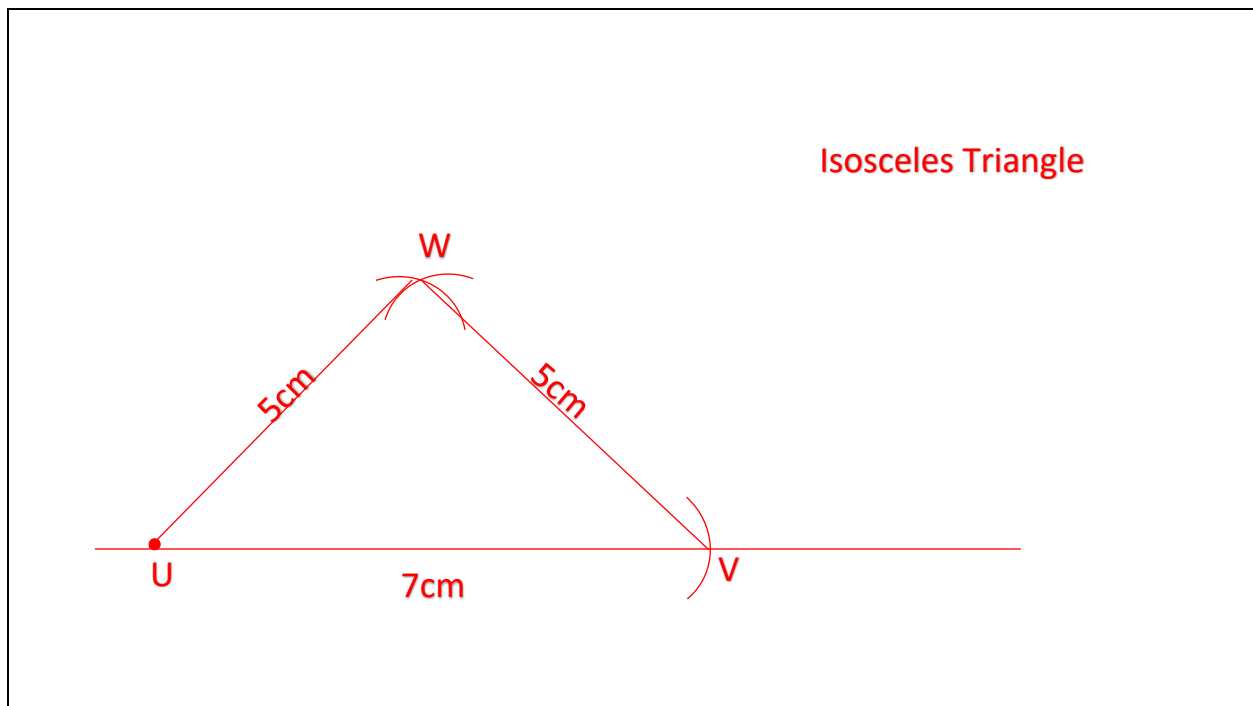
2. Using a ruler, draw a line about 10cm long. Mark a point R on the left side of the line.
- Using your compass, measure a length 6cm on your ruler. Placing your compass point at point R, draw an arc which cuts the line at point S so RS 6cm.
 - Using your compass, measure a length 6cm on your ruler. Placing your compass point at point R, draw an arc which is 6cm above the line somewhere between point R and point S.
 - Using your compass, measure a length 6cm on your ruler. Placing your compass point at point S, draw an arc which is 6cm above the line somewhere between point P and point Q, so that it cuts the other arc you have drawn. Label this point T
 - Use your ruler and join point R to point T.
 - Use your ruler and join point S to point T.
 - Name your triangle.





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3. Using a ruler, draw a line about 10cm long. Mark a point U on the left side of the line.
- Using your compass, measure a length 7cm on your ruler. Placing your compass point at point U, draw an arc which cuts the line at point V so UV is 7cm.
 - Using your compass, measure a length 5cm on your ruler. Placing your compass point at point U, draw an arc which is 5cm above the line somewhere between point U and point V.
 - Using your compass, measure a length 5cm on your ruler. Placing your compass point at point V, draw an arc which is 5cm above the line somewhere between point U and point V, so that it cuts the other arc you have drawn. Label this point W
 - Use your ruler and join point U to point W.
 - Use your ruler and join point V to point W.
 - Name your triangle.





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grade8@worksheetcloud.com