

Read the instructions on the reverse

Group	Last names, Name	Date



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Worksheet title

1-USING THE SET SQUARES:
Triangles and parallels

Read the instructions on the reverse

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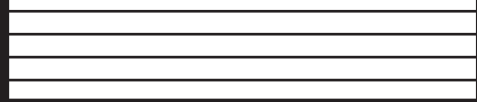
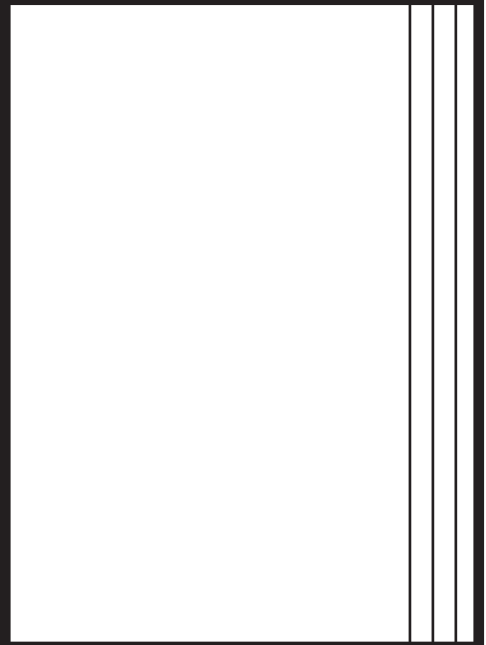


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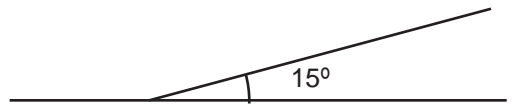
2-CIRCLES PATTERN

Using the triangles fill in the three boxes below with parallels following the directions given. Try to keep the same distance between the straight lines and finish the exercise with black ink.

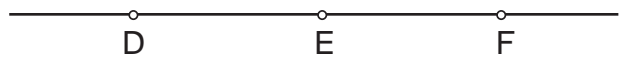
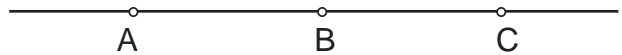
		
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In this exercise you need to draw the angles requested for each given point helping yourself with the angles the triangles offer.

WARNING!!: It is important that you label each angle with a little arc and you note its length in degrees. EXAMPLE:



- A- 15° (45-30 ó 60-45)
- B- 30°
- C- 45°
- D- 60°
- E- 75° (45+30)
- F- 90°
- G- 105° (45+60)
- H- 120° (supplementary of 60)
- I- 135° (90+45, supplementary of 45)
- J- 150° (60+90, supplementary of 30)



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WARNING!!: You must enhance the final result or solution of each problem with black ink and be VERY CAREFUL with being neat and clear in your worksheet final presentation.

Following you can see four line segments AB, CD, EF and GH. Using compass and ruler carry out the operations or exercises requested.

DO NOT USE THE RULER TO TAKE DIMENSIONS, ONLY TO TRACE STRAIGHT LINES. USE THE COMPASS TO TAKE AND COPY THE LENGTHS.



Copy the corresponding line segments from each given point.



From the point P trace the segment $AD = AB + CD$ (Place the location of A on the given point P)



From the point Q trace the segment $CG = CD - GH$ (Place the location of C on the given point Q)



From the point R trace the segment $AF = AB + CD + EF$ (Place the location of A on the given point R)



From the point S trace the segment $AB + CD - GH$ (Place the location of A on the given point S)



From the given point T trace the segment $AB \times 3$ (place the location of A on the given point T)



From the given point W copy the line segment CD and divide it into two equal parts. In order to do that you need to find the Midpoint M drawing the line segment perpendicular bisector. (place the location of C on the given point W)



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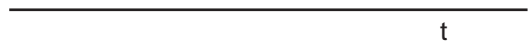
Draw the AB line segment bisector.

Trace the perpendicular line to the given one, r, through P, a point onto it.

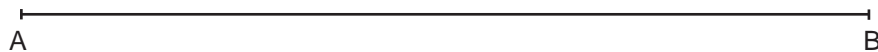


Trace a parallel line to t through point B.

Trace the perpendicular line to the given line, s, through the outer point A.



Divide the segment to line AB into 9 equal parts.



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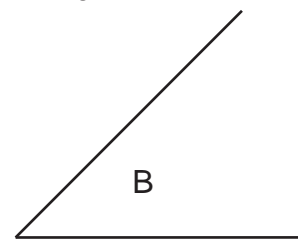
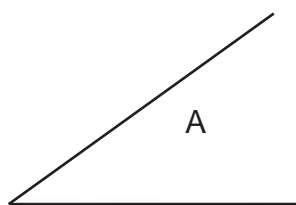
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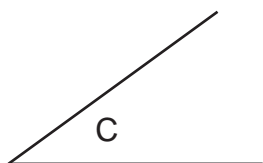
WARNING!!: You must enhance the final result or solution of each problem with black ink and be VERY CAREFUL with being neat and clear in your worksheet final presentation.

With compass and ruler, copy the angle A on the straight line r locating the vertex in point V.

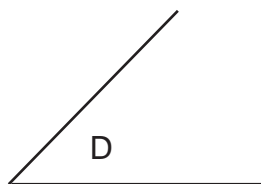
Trace the angle B bisector.



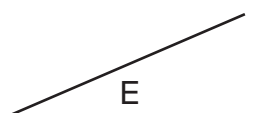
Below on the left three angles: C, D and E are given. Carry out the operations requested on each straight line. It is important that you label CLEARLY each angle solution.



On the straight line s, placing the vertex in point P, draw the angle C+D.



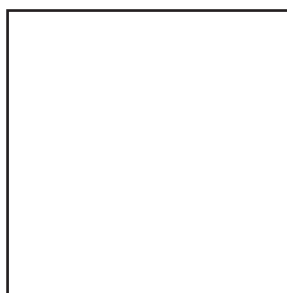
On the straight line t, placing the vertex in point Q, draw the angle D-E.



On the straight line r, placing the vertex in point V, draw the angle C+D-E.



Divide the given square into 9 equal squares. You must divide two of its sides (two that are perpendicular) into three equal parts using thales' theorem and after that trace parallels through the division marks with the triangles (set squares).



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