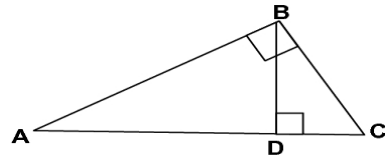


Geometry Honors Worksheet 7.1.1 Similar Right Triangles

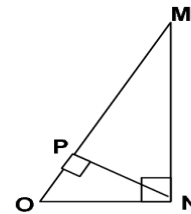
1. For problems a-c use the figure at right.

- a) Name the three similar triangles; make sure the corresponding parts are in order.
- b) If $AB=16$, $BD=8$ and $DC=4$, then find BC .
- c) If $AD=18$ and $DC=8$, then find BD .



2. For problems a-c use the figure at right.

- a) Name the three similar triangles; make sure the corresponding parts are in order.
- b) If $MO=24.5$, $NO=16.1$ and $NP=9.3$, then find MN to the nearest tenth.
- c) If $MO=16$, and $PO=4$, then find MN to the nearest hundredth.



3. For problems a-c use the figure at right.

- a) Name the three similar triangles; make sure the corresponding parts are in order.
- b) If $SP=14$, $TS=11$, and $SO=8.5$, then find TO to the nearest tenth.
- c) If $PO=25$, $SO=15$, and $TO= x+4$, solve for x and TO .

