Extracting a Triangle from a Picture Practice
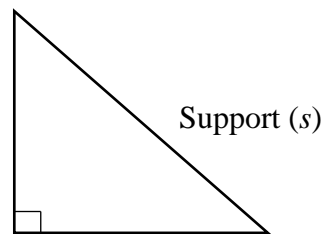
1. A swinging gate has outside dimensions of
    30 inches by 38 inches. What is the length
    of the diagonal support, to the nearest inch?

Step 1: Identify the given and the required values.

- _____
- _____
- _____

Step 2: Draw and label the diagram.

Support (s)

Steps 3 and 4: Write the formula, substitute known values, and solve.

Step 5: Review the answer.

2. A Blackfoot nation is planning a Pow
    Wow. A tipi, for the central gathering
    place, needs to have a radius of 18.5 feet
    and a height of 22.25 feet (in the centre).

    A rawhide tarp makes up the wall of the
    tipi. From the ground to the top of the tipi,
    what is the length of the rawhide wall, to
    the nearest hundredth of a foot?

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Step 1: Identify the given and the required values.

-   _____
-   _____
-   _____

Step 2: Draw and label the diagram.

Steps 3 and 4: Write the formula, substitute known values, and solve.

Step 5: Review the answer.