Answer the following questions.

1) A circle has 360° when you go all the way around it. On a basketball hoop there are 11 tie loops for the net to hang from the rim, how many degrees are there between each one? Answer in DMS (degrees minutes seconds)

2) A roll of gasket material is 18 inches wide. What length is needed to obtain 24 square feet of the material?

3) Installing ducting in a home for the heating system, you have a rectangular duct with length of 12 inches and a width of 7 inches. To tape the seam, how many inches of tape do you need if you add 10% for overlapping? Round to the nearest half inch.
4) This is the aerial view of a roof. Roofing is broken into “squares” or 100 square foot sections. How many squares of shingles will be needed to cover the roof? Round up the next square and do not worry about overlap.

![Diagram of a roof with dimensions labeled: 22 ft, 30 ft, 45 ft, 15 ft, and 15 ft.]

5) The chairs in the classroom have triangles for the legs. The bottoms of the legs (wheels) are 20 inches apart while the legs running to the wheels are each 13 inches long. What is the height from the top of the triangle to the bottom of the triangle? Round to 2 significant digits

![Image of a chair with legs and wheels]