

# Modified Lesson #1

## Geometry and the Pythagorean Theorem

### Engage

1. For each of the following terms, look up the term in an English dictionary. Then provide a mathematical definition. Jot down the similarities and differences between the two definitions.

right; approximate (v.); corollary; measure (n.); fourth; resulting (adj.); or;

### Explore

2. Go to your local electronics store and check out the widescreen section. Take a tape measure with you. For a few different sized widescreen TVs, record the length, the height, and the measure given on the retail packaging (e.g., 56"). Also record the aspect ratio shown on the packaging (e.g., 16:9). Use the chart below. Measure at least 5 TVs.

TV make & model	Length	Height	Retail measure	Aspect ratio
Sony BRAVIA	34.86"	19.61"	40"	16:9