6.1 Ratios, Proportions, and the Geometric Mean

**Ratio**

\[ \frac{\text{one}}{\text{one}} \text{ to another.} \]

Written as \[ \text{________ or } \text{________} \]

Simplify the ratio 24 yards to 3 yards

A triangle’s angle measures are in the extended ratio of 1 : 3 : 5. Find the measures of the angles

**Proportion**

Two \[ \text{________ that are } \text{________} \text{ are a proportion.} \]

\[ \frac{1}{64} = \frac{2}{128} \text{ is a proportion} \]

The \[ \text{________ } \text{________ of a proportion are } \text{________}. \]

The height of my toy tractor is 1.5 inches, what is the height of the real tractor?

Find value of \[ x. \]

\[ \frac{x-2}{x} = \frac{3}{8} \]
Geometric Mean

The geometric mean of two \underline{__________} numbers \underline{____} and \underline{____} is the positive number x that satisfies \underline{__________}. So, \underline{__________}

Find the geometric mean of 18 and 54.

Assignment: 360 #4-44 even, 50, 52, 60, 72-80 even = 29