



Write these numbers in order of size, starting with the largest.

$0.\dot{1}3\ddot{8}$ $0.13\ddot{8}$ 0.138 $0.1\dot{3}\ddot{8}$

$0.13\ddot{8}$

$0.\dot{1}3\ddot{8}$

$0.1\dot{3}\ddot{8}$

0.138

Find the size of each interior angle of a regular 20-sided polygon.

$$360 \div 20 = 18$$

$$180 - 18 = 162^\circ$$

The length ratio between two similar solids is 2:3

What is the volume ratio between the solids?

$$2^3 = 8$$

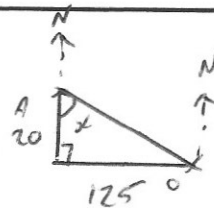
$$3^3 = 27$$

$$8:27$$

A helicopter flies 125 miles west and 20 miles north and lands.

The helicopter flies back on a direct course.

What is its bearing?



$$\tan^{-1} \frac{125}{20}$$

$$x = 80.9$$

$$180 - 80.9 = 099.1^\circ$$

x is inversely proportional to the square of y

$$x \propto \frac{1}{y^2}$$

When $x = 2$, $y = 9$

Find y when $x = 1$

$$x = \frac{k}{y^2}$$

$$2 = \frac{k}{9^2}$$

$$k = 162$$

$$x = \frac{162}{y^2}$$

$$1 = \frac{162}{y^2}$$

$$y^2 = 162$$

$$y = 9\sqrt{2}$$