On the Job Math Concepts
Engineering Tech I

As an Engineering Tech I, you'll use a variety of math skills to solve real-world problems. Below are some examples of math concepts you may apply in your day-to-day work.
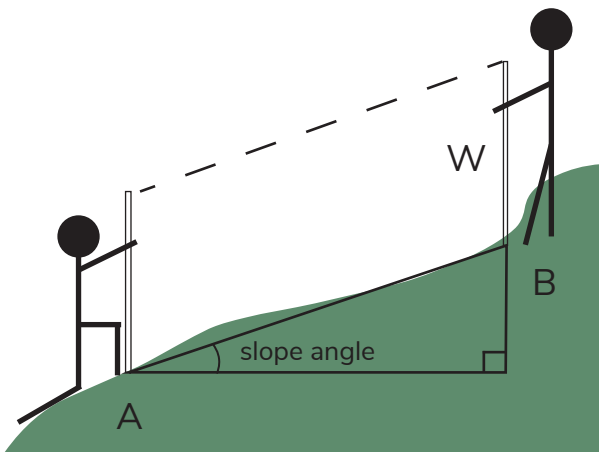

1.) Convert the degrees into decimals.

26° 56' 23"

18° 12' 43"
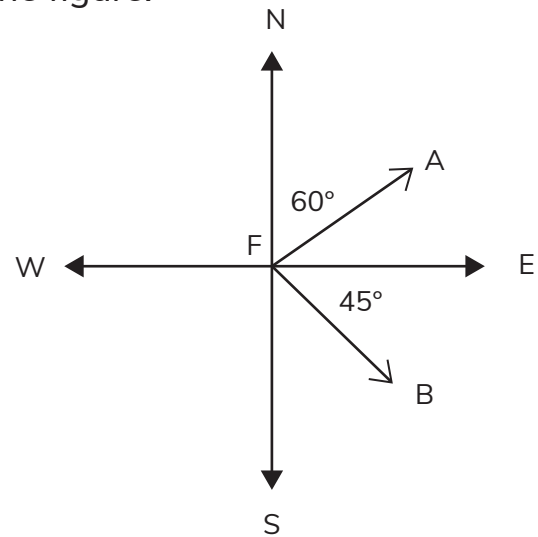
32° 38' 05"

2.) The distance between two points on the map is 5". The map is drawn to the scale of 1" = 3 miles. Find the actual distance between the two points.
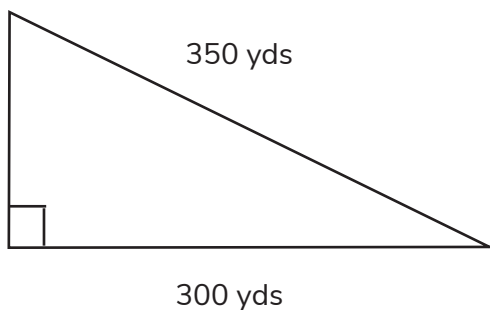

3.) Calculate the slope between two points.

W

B

slope angle

A

4.) Determine the bearing of the line FB in the figure.

N

A

60°

W   F   E

45°

B

S

5.) Find the difference in elevation.

350 yds

300 yds

6.) Find the length of the horizontal side.

150'

2%