

7. Find the interquartile range and identify any outliers in the set of test scores below.

89, 93, 75, 80, 100, 35, 91, 77, 85, 95, 100, 42, 82, 87, 93, 98, 96, 83, 75, 90

8. Use your unit circle guide to find the numerical value of $\cos \frac{3\pi}{4} - \sin \frac{3\pi}{4}$.

9. Convert $\frac{7\pi}{6}$ radians to degrees.

10. A rocket's path can be described by the equation $y = -16x^2 + 50x$.

- a. What is the maximum height of the rocket's path? (y -value of the turning point)

- b. How long is the rocket in the air? (Distance between the positive root and the y -axis.)
- c. -axis.)

11. If a set of data has a correlation less than zero, what do we know about the equation of the line of best fit?