

Distance formula/Pythagorean Theorem and Midpoint!

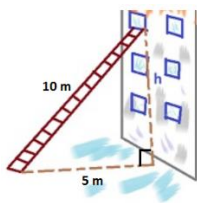
Distance formula: it is used to know the distance between two points. The square root of $x_2 - x_1$ squared + $y_2 - y_1$ squared.

The distance formula is used in real life because when you are walking down the block you can use it.



Pythagorean Theorem: it is used to find the length of a triangle when the other 2 sides are know. $a^2 + b^2 = c^2$

In real life you can use it my ladders to paint the outside of a building.



Midpoint: the middle of where a point is at.

In real life it can be used by finding a distance between a tennis court in the middle.

$$\left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$$
