

The Mighty Pythagoras Drills

Easy

- 1 Jack leaves the caves and runs directly north for 6 miles. He then turns and runs 8 miles east. How many miles is he from the caves?

- (A) 2
- (B) 8
- (C) 10
- (D) 14
- (E) 100

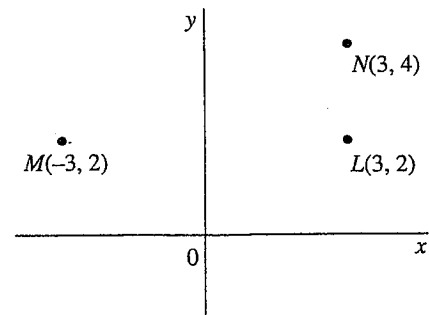
Medium

- 2 If a rectangle measures 27 yards by 36 yards, what is the length, in yards, of the diagonal of the rectangle?

- (F) 24
- (G) 27
- (H) 36
- (J) 45
- (K) 63

- 3 Points L , M , and N are shown in the standard (x, y) coordinate plane below. If the three points are connected to form a triangle, what is the measure of the hypotenuse of the triangle in coordinate units?

- (A) $2\sqrt{10}$
- (B) $4\sqrt{2}$
- (C) 4
- (D) 3
- (E) 2



Hard

- 4 In the figure below, $\triangle ABC$ is a right triangle with legs that measure m and $3m$ feet, respectively. What is the length, in feet, of the hypotenuse?

- (F) $\sqrt{10}m$
- (G) $\sqrt{7}m$
- (H) $\sqrt{3}m$
- (J) $2m$
- (K) $4m$

