## 6-7 Solve It!



## 6-7 Lesson Quiz

1. Is $\triangle A B C$ scalene, isosceles, or equilateral?


## 2. Do you UNDERSTAND? What is the most precise classification of the quadrilateral formed by the four segments connecting the midpoints of the sides of the square?



## Answers

## Solve It!

Answers may vary. Sample:


Using the square grid to count units, the slope of Leg 1 (E3 to $B 4$ ) is 3 . The slope of Leg 2 (B4 to $C 7$ ) is $-\frac{1}{3} .3 \cdot\left(-\frac{1}{3}\right)=-1$, so the legs are $\perp$ and form a rt. $\angle$. The horiz. distance of Leg 1 is 1 unit, and the vert. distance is 3 units. The horiz. distance of Leg 2 is 3 units, and the vert. distance is 1 unit. Using the

Distance Formula, both legs have a measure of $\sqrt{1^{2}+3^{2}}$ or $\sqrt{10}$ Since the legs are congruent and perpendicular to each other, the $\triangle$ is a rt. isosc. $\triangle$.

## Lesson Quiz

1. isosceles
2. square
