Find the indicated length for each of the following.

| 1. | The length of a diagonal of a square is $10 \sqrt{2}$ inches. Find the length of <br> one side of the square. |
| ---: | :--- |
| 2. | The perimeter of a square is 44 meters. Find the length of a diagonal of a <br> square. |
| 3. | The length of one side of a square is 13.5 centimeters. Find the length of <br> a diagonal of the square. |
| 5. | The length of one side of an equilateral triangle is $6 \sqrt{3}$ meters. Find the <br> length of one altitude of the triangle. <br> The length of the diagonal of a square is 10 inches. Find the length of one <br> side of the square. |


| 6. | The length of an altitude of an equilateral triangle is 12 feet. Find the <br> length of a side of the triangle. |
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| 7. | The perimeter of an equilateral triangle is 39 centimeters. Find the length <br> of the altitude of the triangle. |
| 8. | The length of a diagonal of a square is $18 \sqrt{2}$ millimeters. Find the <br> perimeter of the square. |

Find the indicated values.
9. $\mathrm{BC}=$ =
11. $\mathrm{HJ}=$ I

| 16. $\mathrm{AC}=\ldots$ | Stacy is cutting a square piece of material for a tablecloth. The <br> table's diagonal is 36 inches. She wants the diagonal of the <br> tablecloth to be an extra 10 inches so it will hang over the edges of <br> the table. What size square should Stacy cut to make the <br> tablecloth? Round to the nearest inch. |
| :--- | :--- |
| $18 . .$17.  <br> An ornamental pin is in the shape of an equilateral triangle. The  <br> lengh of each side is 6 cm. Josh will attach the fastener to the  <br> back along the altitude. Will the fastener fit if it is 4 cm long?  |  |

