

Name _____

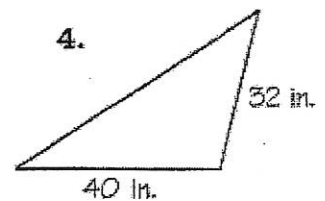
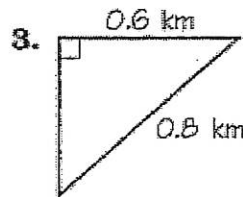
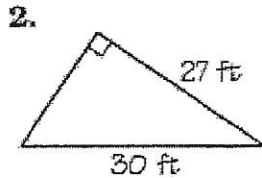
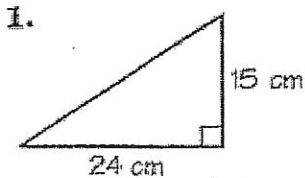
Concept #2 Practice – Pythagorean Theorem

Determine whether or not the given numbers are possible measures for the sides of a right triangle. Show all work.

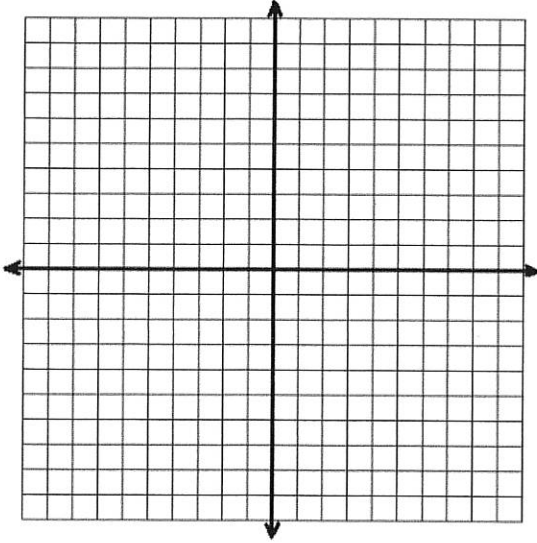
$a = 30 \quad b = 40 \quad c = 50$ $a^2 = \underline{\quad} \quad b^2 = \underline{\quad} \quad c^2 = \underline{\quad}$	$a = 40 \quad b = 50 \quad c = 60$ $a^2 = \underline{\quad} \quad b^2 = \underline{\quad} \quad c^2 = \underline{\quad}$	$a = 10 \quad b = 24 \quad c = 26$ $a^2 = \underline{\quad} \quad b^2 = \underline{\quad} \quad c^2 = \underline{\quad}$
13 Right triangle? yes h-L no s-A	14 Right triangle? yes l-S no n-I	15 Right triangle? yes u-U no g-E

$a = 0.9 \quad b = 4.0 \quad c = 4.1$ $a^2 = \underline{\quad} \quad b^2 = \underline{\quad} \quad c^2 = \underline{\quad}$	$a = \sqrt{2} \quad b = \sqrt{2} \quad c = 2$ $a^2 = \underline{\quad} \quad b^2 = \underline{\quad} \quad c^2 = \underline{\quad}$	$a = 1 \quad b = 1 \quad c = \sqrt{2}$ $a^2 = \underline{\quad} \quad b^2 = \underline{\quad} \quad c^2 = \underline{\quad}$
16 Right triangle? yes d-H no c-R	17 Right triangle? yes j-S no p-O	18 Right triangle? yes s-N no l-T

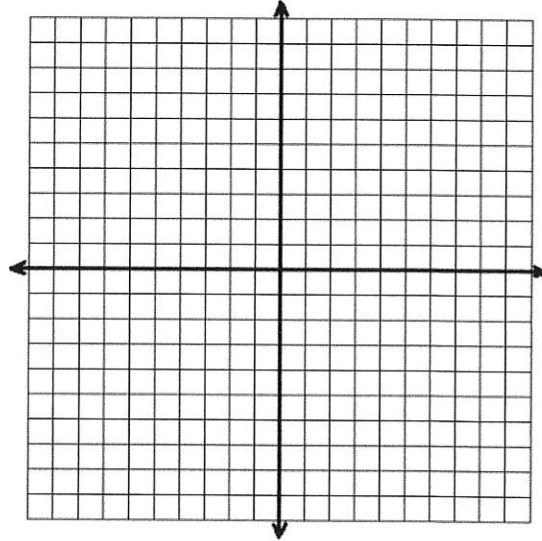
Find the missing side length, if possible.



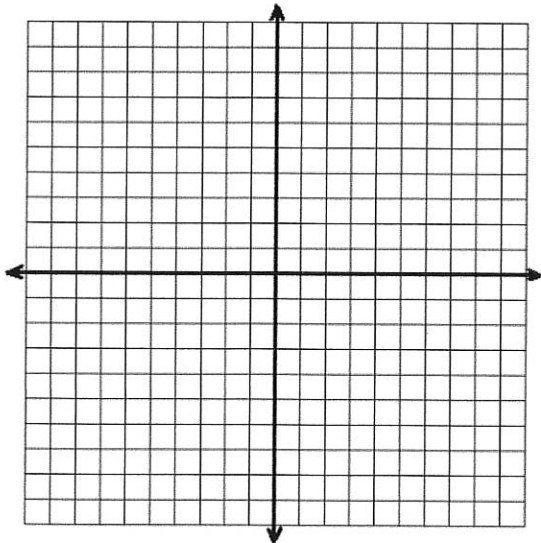
① Distance between $A(-6,4)$ and $B(5,1)$.



② Distance between $C(-2,6)$ and $D(-2,-2)$.



③ Distance between $A(7,0)$ and $B(-5,-6)$.



④ Distance between $A(-4,0)$ and $B(8,-3)$.

