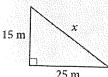
DAY 1 - Pythagorean Theorem

Find the length of the hypotenuse to the nearest tenth of a unit.



$$\chi^{2}=15^{2}+25^{2}$$
 $\chi^{2}=225+625$
 $\chi^{2}=850$
 $\chi=29.2m$

102+62= x2 100+36=x2 136=x2 11.2 = x 2.

Find the length of the indicated side to the nearest tenth of a metre.



15 m

$$X^{2}+15^{2}=25^{2}$$

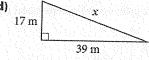
 $X^{2}+225=625$
 $X^{2}=400$

X=Qom

12+62=102 d=+36=100 1-6-

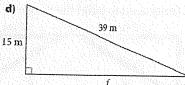
 $144+16=\chi^2$ $160=\chi^2$

12.6 in = X





d)



17+392=x2 289+ 1521=x2 1810=x2

42.5 m=x

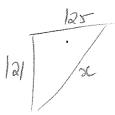
p2+122=132

+ 2+ 152=392 f2 +225 = 1521 f = 1296

f = 36 m

Jie-ling walks home from school by walking around two sides of a rectangular park. The length of the park is 125 m and the width is 121 m. If Jie-ling were to walk diagonally across the park, how far would she walk?





2 = 1252+1212

92= 15625 + 14641

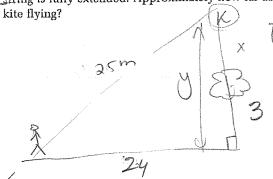
42 = 30266

2=174 m

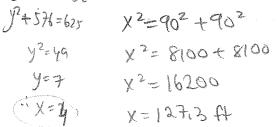
3. She walked 174m

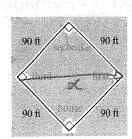
4.

Brook is flying a kite while standing 56 m from the base of a tree at the park. Her kite is directly above the 10-m tree and the 125-m string is fully extended. Approximately how far above the tree is her



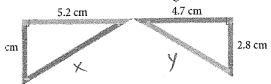
Natalya is playing baseball. She catches a ground ball at third base. The player on the opposing team is running toward first base. How 1 + 24? far does Natalya have to throw the Jball to throw the runner out?





4 1252= 242+ (x+3)2 1625= 576+ x73x+3x+9 D= x2+6x-40

Daniel is building a wooden bridge for his daughter's model railroad. He sketches a plan for the bridge. What length of wood does Daniel need to build the bridge?



x2=31/2+5122 X2=36.65 x = 61cm 1

> y2= 22.09 + 7.84 4=55cm

: Natalya must throw ball 127 3A

Darlene goes camping with her children. As they set up the tent, they discover that the vertical support poles are missing. What length of pole does Darlene need to buy?



x2+32=52 X=4

a pole reeds to