Distance between people

This task is about using Pythagoras' theorem and trigonometry ratios to calculate distances.

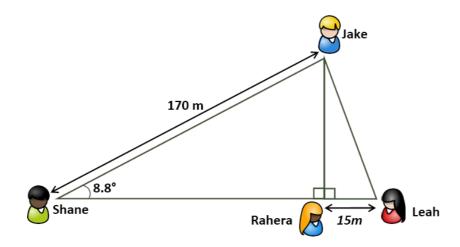
Trigonometry ratios

 $Sin \theta = \frac{b}{c}$ $C \qquad Cos \theta = \frac{a}{c}$ $Tan \theta = \frac{b}{a}$

Pythagoras' Theorem

 $c^2 = a^2 + b^2$

Use the formulae above to answer the following questions.



Shane, Jake, Rahera, and Leah are standing in a paddock. What is the distance between

i. Jake and Rahera? metres

ii. Shane and Rahera? metres

iii. Jake and Leah? metres

Published on https://newzealandcurriculum.tahurangi.education.govt.nz