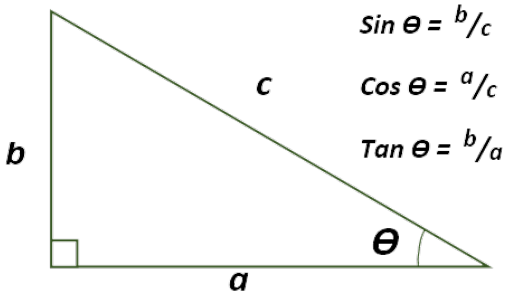
Distance between people

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

Trigonometry ratios



$\sin\theta = {}^{b}/_{c}$

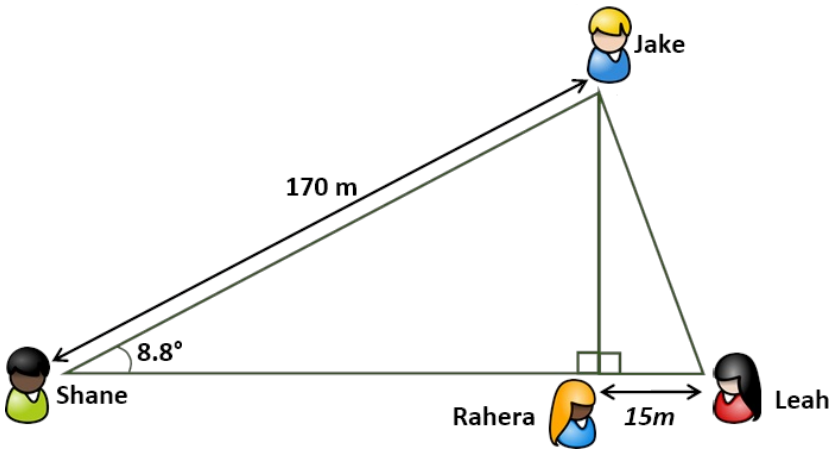
$\cos\theta = {}^{a}/_{c}$

$\tan\theta = {}^{b}/_{a}$

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

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