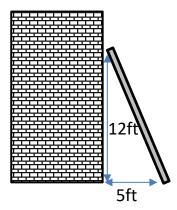
Name Date

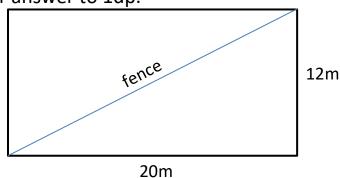
PYTHAGORAS' THEOREM WORD PROBLEMS 1



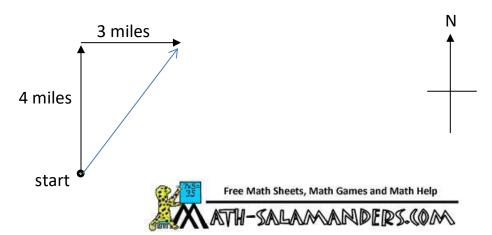
1) A ladder is placed 5ft away from a house. The ladder comes up to 12ft on the side of the house. How long is the ladder?



2) Tyger has a rectangular garden measuring 12m by 20m that he wants to split diagonally from corner to corner using a fence. How long does his fence need to be? Give your answer to 1dp.



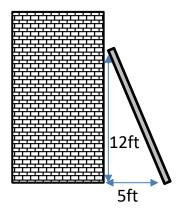
3) Sally walks 4 miles due north and then 3 miles due east. How far has she walked as the crow flies from her starting point?



PYTHAGORAS' THEOREM WORD PROBLEMS 1 ANSWERS

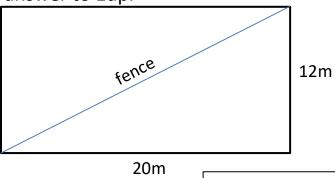


1) A ladder is placed 5ft away from a house. The ladder comes up to 12ft on the side of the house. How long is the ladder?



Answer =
$$\sqrt{(5^2 + 12^2)} = \sqrt{169} = 13$$
ft

2) Tyger has a rectangular garden measuring 12m by 20m that he wants to split diagonally from corner to corner using a fence. How long does his fence need to be? Give your answer to 1dp.



Answer =
$$\sqrt{(20^2 + 12^2)} = \sqrt{544} = 23.3$$
m

3) Sally walks 4 miles due north and then 3 miles due east. How far has she walked as the crow flies from her starting point?

