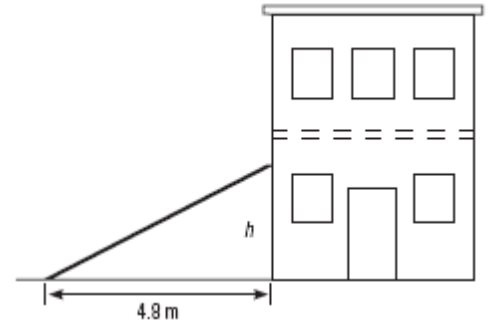


2.3 Pitch Practice

Round pitch to nearest whole number and state as x:12

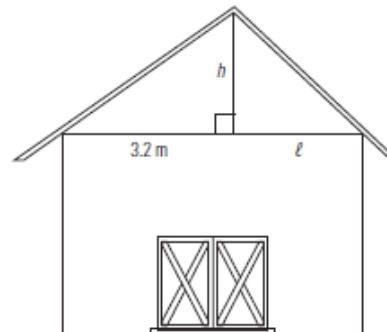
1. If a roof has a rise of 2 and a run of 11. Calculate the pitch and express it as a ratio.
2. If the total span of a house is 30 feet and the roof rises 5 feet at its peak, what is the pitch?
3. If a roof has a pitch of 6:12 and the roof has a rise of 9.5 feet, what is its run?
4. What is the total span of a roof that has a pitch of 9:12 and a total rise of 5.2 feet?
5. What is the pitch of the roof of an A-frame building if the height from rafter to the peak is 6.5 m and the house is 12.1 m wide?

6. The pitch of a roof on a lean-to that Dianna is building is 2:12. If the lean-to touches the ground 4.8 m from the base of the building, how high up the building does it reach?

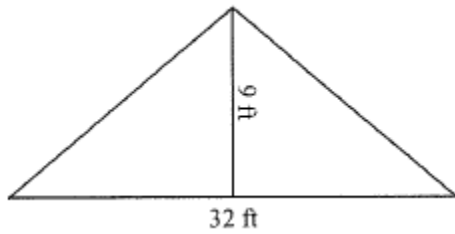


7. The roof of one house has a pitch of 4.2:12. The roof of a second house has a pitch of 7.8:12. Which is steeper? Explain.

8. How wide is the shed in the diagram below if the pitch of the left side is 9:12 and the pitch of the right side is 11:12.



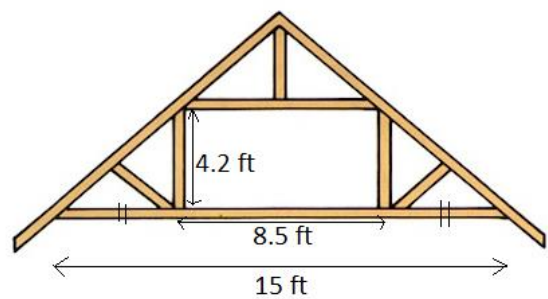
9. John is planning to book a roofing company to re-shingle his cottage, but he needs to tell them the pitch of his roof. His triangular roof is 32 ft wide and rises 9 ft.



- a) What is the pitch of the roof?
- b) How many feet does John's roof rise for every 8 ft of horizontal distance?

10. For the following roof:

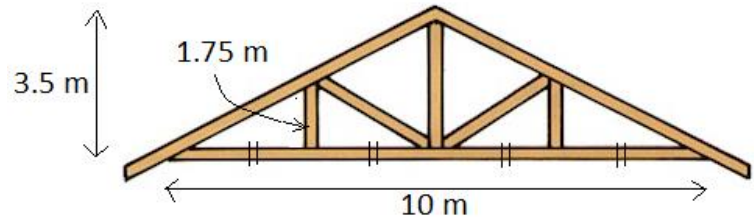
- a) Find the pitch of the roof.



- b) Calculate the angle of elevation of the roof.

11. For the following roof:

a) Find the pitch of the roof.



b) Calculate the pitch of the diagonal trusses.

c) Calculate the angle of elevation of the roof.

12. Bob is building a set of stairs for his deck. The deck rises 48" over a run of 96". If he wants to have 6 steps up to the deck.

a. What is the pitch of the staircase?

b. What will be dimensions of the rise and run of each stair in inches?

c. What is the pitch of each stair?