

1) A 10m long ladder is leaning against a brick wall. The foot of the ladder is 3.6m from the base of the wall.

- Draw a picture to represent the situation
- What is the distance from the top of the ladder to the ground?
- How did you figure out your answer (show your equation)?

2) A square has diagonals that are 7 cm.

- Draw a picture, marking all congruent sides and angles:
- Is the square a rhombus?
- You need to find the perimeter of the square. What information will you need to know first?
- Finish the problem (show your work).

3) An isosceles triangle has a base that is 10 cm. The altitude to that base is 12 cm.

- Draw a picture to represent the situation.
- Find the length of the legs of the triangle.
- What is the perimeter of the triangle?
- What is the area of the triangle?

4) Billy Ray Virus loves to drive around. He starts in Gooberville and drives due north for 10 miles to Wakjob. He then heads to Boguscrapland (which is 12 miles due west from Wakjob). From Boguscrapland he headed 14 miles straight south to Pikyernose.

- Draw a picture to represent the situation.
- What is Billy Ray Virus' "straight line" distance back to Gooberville? Show your work.

5) Bogey Bob went golfing last week. See the picture for the layout of hole 6.

- Bogey Bob can hit his best club 220 m.
- If the hole is 15 m from edge of the water, will he be able to clear the water? Why or why not?

