3. A lamppost casts a shadow that is 35 yards long. A 3-foot-tall mailbox casts a shadow that is 5 yards long. How tall is the lamppost?

4. A 6-foot-tall scarecrow in a farmer's field casts a shadow that is 21 feet long. A dog standing next to the scarecrow is 2 feet tall. How long is the dog's shadow?

5. A building casts a shadow that is 348 meters long. At the same time, a person who is 2 meters tall casts a shadow that is 6 meters long. How tall is the building?

6. On a sunny day, a tree casts a shadow that is 146 feet long. At the same time, a person who is 5.6 feet tall standing beside the tree casts a shadow that is 11.2 feet long. How tall is the tree?

7. In the early afternoon, a tree casts a shadow that is 2 feet long. A 4.2-foot-tall boy standing next to the tree casts a shadow that is 0.7 feet long. How tall is the tree?

8. Steve's pet parakeet is 100 mm tall. It casts a shadow that is 250 mm long. A cockatiel sitting next to the parakeet casts a shadow that is 450 mm long. How tall is the cockatiel?
Solve each of the problems below and circle your answer.

1. A small triangle has a hypotenuse of 4, and sides of 2 and 3. A larger, similar triangle has a hypotenuse of 20. Find the lengths of the other two sides of the larger triangle.

2. A large parallelogram has angles of 120 degrees and 60 degrees. What are the corresponding angles of a smaller, similar parallelogram?

3. Solve the problems below and circle your answer.

4. A 3-foot-tall mailbox casts a shadow that is 5 feet long. A 3-foot-tall mailbox casts a shadow that is 2 feet long. How tall is the larger building?

5. A 3-foot-tall boy looks into a mirror at an who is 6.2 feet tall is painting a building casts a shadow that is 21 feet long. How tall is the building?

6. A 3-centimeter bug looks like it is 2-centimeter-long bug looks like it is 1-centimeter-long bug. How long would a 3-centimeter bug look in that same magnifying glass?

7. A picture of a magnifying glass, a 2-centimeter-long bug, and a 1-centimeter-long bug. How long would a 3-centimeter bug look in that same magnifying glass?

8. A 3-centimeter bug looks like it is 2-centimeter-long bug looks like it is 1-centimeter-long bug. How long would a 3-centimeter bug look in that same magnifying glass?

What kind of ant can break a picnic table with one blow?

Transfer the matching letters, in order, on to the blanks to solve the riddle.

T S P U L A S L T M A N T A X 0 3

1. Write the correct answer.

2. Write the correct answer.

3. Write the correct answer.

4. Write the correct answer.

5. Write the correct answer.

6. Write the correct answer.

7. Write the correct answer.

8. Write the correct answer.

Write the correct answers.

1. Use similar triangles to find the height of the lamppost.

2. Use similar triangles to find the height of the tower.

3. Use similar triangles to find the height of the building.

4. Use similar triangles to find the height of the man.

5. Use similar triangles to find the height of the building.

6. Use similar triangles to find the height of the building.

7. Use similar triangles to find the height of the building.

8. Use similar triangles to find the height of the building.