1. Find the length of a path that runs diagonally across a 53 yard by 100 yard field.

2. A mover must put a circular mirror two meters in diameter through a one meter by 1.8 meter

doorway. Find the length of the diagonal of the doorway. Will the mirror fit?

3. A surveyor walked eight miles north, then three miles west. How far was she from her

starting point?

4. A four meter ladder is one meter from the base of a building. How high up the building will

the ladder reach?

5. A 12-meter loading ramp rises to the edge of a warehouse doorway. The bottom of the ramp

is nine meters from the base of the warehouse wall. How high above the base of the wall is

the doorway?

6. What is the longest line you can draw on a paper that is 15 cm by 25 cm?

7. How long an umbrella will fit in the bottom of a suitcase that is 2.5 feet by 3 feet?

8. How long a guy wire is needed to support a 10 meter tall tower if it is fastened five meters

from the foot of the tower?

9. Find the diagonal distance from one corner of a 30 foot square classroom floor to the other

corner of the floor.

10. Harry drove 10 miles west, then five miles north, then three miles west. How far was he

from his starting point?

11. Linda can turn off her car alarm from 20 yards away. Will she be able to do it from the far

corner of a 15 yard by 12 yard parking lot?

12. The hypotenuse of a right triangle is twice as long as one of its legs. The other leg is nine

inches long. Find the length of the hypotenuse.