Quiz 1 Answer Key

1. 0.48%
2. 15 yards
3. Yes, since any line can be contained in a plane.
4. B. See student work.
5. Any three points define a plane (Postulate 9), so a tripod will always be steady. A stand with four or more legs could easily wobble on many surfaces (could only be steady on ONE particular plane).
6. No. A plane is defined by noncollinear points, and a space is defined by noncoplanar points.
7. A conjecture can only be proved by the study of examples retailing to the conjecture if all possible cases are tested, but if one result that is not predicted by the conjecture is found, the conjecture can be disproved.
8. Doubled side lengths: 60 m and 72 m, new perimeter: 264 m which is double the original perimeter measuring 132 m.
9. 1732.8 m
10. Converses:
    1. If x=3 or -3, then x2=9; true.
    2. If it is Thursday, then it is Thanksgiving Day; false.
    3. If a cardinal is bright red, then it is a male; true.