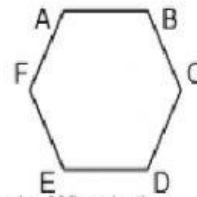**BASIC GEOMETRIC CONSTRUCTIONS / REGULAR POLYGONS / CIRCLE / SOLVING PROBLEMS INVOLVING SIDES AND ANGLES OF POLYGONS**

Name: _____ Score: _____

Grade Level: _____ Name of School: _____

Direction: Read and answer each item then write the letter of the correct answer.

1. A square has a perimeter of 32 m. What is the area of the square?
   A. 100 m²   B. 81 m²   C. 64 m²   D. 49 m²

2. Russell jogs at their Barangay covered court with dimensions 28m by 15m every day. If he turned around it 15 times today, how far did he run?
   A. 1, 300 m   B. 1, 290 m   C. 1, 280 m   D. 1, 270 m

3. Eliza wants to build a regular hexagonal playground in her backyard. How much fencing she will need to buy if each side measures 5m?
   A. 30m   B. 25m   C. 20 m   D. 15m

4. What is the sum of all the interior angles of a nonagon?
   A. 1800⁰   B. 1,440⁰   C. 1,260⁰   D. 1,080⁰

5. What is the measure of each exterior angle of a regular decagon?
   A. 40⁰   B. 36⁰   C. 32⁰   D. 28⁰

6. What is the sum of the interior angles of the given figure
   A. 1, 260⁰   C. 900⁰
   B. 1, 080⁰   D. 720⁰

7. The surface of a warning sign is in the shape of a regular triangle. What is the measure of each interior angle of the sign?
   A. 40⁰   B. 50⁰   C. 60⁰   D. 70⁰

8. Thea made a regular pentagonal cake for Rexel's birthday. If its perimeter is 152.4 cm, what is the measure of each side of the cake?
   A. 30.18 cm   C. 30.38 cm
   B. 30.28 cm   D. 30.48 cm

For numbers 9 and 10, refer to the figure at the right.

9. Which is the value of x in the given figure?
   A. 145⁰   C. 125⁰
   B. 135⁰   D. 105⁰

10. What is the measure of ∠y?
   A. 90⁰   B. 80⁰   C. 70⁰   D. 60⁰