### Lesson 11 Practice Problems

1. *Technology required.*A regular pentagon has side length 7 inches.
   1. What is the perimeter of the pentagon?
   2. What is the area of the pentagon?
2. *Technology required.*The expression  approximates by giving the perimeter of a regular polygon inscribed in a circle with radius 1.
   1. What does stand for in the expression?
   2. If there are 60 sides, what is the difference between the perimeter and ?
3. *Technology required.*A regular hexagon has side length 2 inches.
   1. What is the perimeter of the hexagon?
   2. What is the area of the hexagon?

* (From Unit 4, Lesson 10.)

1. An airplane travels 125 miles horizontally during a decrease of 9 miles vertically.
   1. What is the angle of descent?
   2. What is the distance of the plane’s path?

* (From Unit 4, Lesson 10.)

1. Select **all** true statements.

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  1. is units
  2. is 13 units
* (From Unit 4, Lesson 9.)

1. Write 2 equations using sine and 2 equations using cosine based on triangle .

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* (From Unit 4, Lesson 8.)

1. An equilateral triangle has area of  square units. What is the side length?

* (From Unit 4, Lesson 3.)



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