Geometric grid - answers

Worked answers / Keep separate from the student sheet.

1. An equilateral triangle has side 5 mm. State its three angles and exact height.
All angles = 60 degrees. Height = 5 sqrt(3)/2 = 4.33013 mm.

2. An equilateral triangle has side 6 mm. State its three angles and exact height.
All angles = 60 degrees. Height = 6 sqrt(3)/2 = 5.19615 mm.

3. An equilateral triangle has side 7 mm. State its three angles and exact height.
All angles = 60 degrees. Height = 7 sqrt(3)/2 = 6.06218 mm.

4. An equilateral triangle has side 8 mm. State its three angles and exact height.
All angles = 60 degrees. Height = 8 sqrt(3)/2 = 6.9282 mm.

5. An equilateral triangle has side 9 mm. State its three angles and exact height.
All angles = 60 degrees. Height = 9 sqrt(3)/2 = 7.79423 mm.

6. An equilateral triangle has side 10 mm. State its three angles and exact height.
All angles = 60 degrees. Height = 10 sqrt(3)/2 = 8.66025 mm.

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