Cubes

Grade 5 Geometry Worksheet

Which of these shapes are cubes? Circle them and prove that they are a cube.

1. ? cm
   2 cm
   Volume = 8 cm$^3$

2. ? in
   6 in
   Volume = 60 in$^3$

3. ? ft
   5 ft
   Volume = 125 ft$^3$

4. ? m
   7 m
   Volume = 343 m$^3$

5. ? in
   4 in
   Volume = 27 in$^3$

6. ? m
   10 m
   Volume = 100 m$^3$
Answers

Numbers 1, 3, and 4 are cubes, others are not.

1.  $2 \times 2 \times 2 = 8 \text{ cm}^3$
   Yes, it is a cube.

2.  $6 \times 6 \times 6 = 216 \text{ in}^3$
   Does not equal to 60 in$^3$. Not a cube.

3.  $5 \times 5 \times 5 = 125 \text{ ft}^3$
   Yes, it is a cube.

4.  $7 \times 7 \times 7 = 343 \text{ m}^3$
   Yes, it is a cube.

5.  $4 \times 4 \times 4 = 64 \text{ in}^3$
   Does not equal to 27 in$^3$. Not a cube.

6.  $10 \times 10 \times 10 = 1000 \text{ m}^3$
   Does not equal to 100 m$^3$. Not a cube.