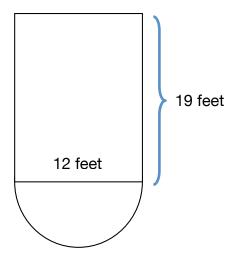


Area of a CircleExtend Your Learning

1. Connor and his family are planning to buy a trampoline. They have narrowed their search to two different trampolines, a 15-foot square trampoline or a 16-foot round trampoline. For safety, they also need to buy netting to surround the trampoline.

- a. Find the amount of netting each trampoline requires.
- b. Which trampoline has the greater jumping area?
- 2. Taylor is getting a backyard wading pool for her birthday. Her parents want the pool to be big enough for five children, so they decided the pool should have an area of about 50 square feet. What diameter pool should they buy?
- 3. The key on a basketball court is shown below. Find the total area inside the key.







Area of a Circle Extend Your Learning

4. The Miller family has two trampolines. One is a mini-trampoline with a diameter of 36 inches. The other is a large trampoline. The jumping area of the large trampoline is 16 times greater than the jumping area of the small trampoline. What is the diameter of the large trampoline?

5. Alec's grandma made two apple pies. She made one pie in an 8-inch pie pan and the other in a 10-inch pie pan. She cut the 8-inch pie into 6 pieces and the 10-inch pie into 8 pieces. Alec wants the largest piece possible. Assuming both pies are the same thickness, from which pie should Alec choose a piece?

