



Name: \_\_\_\_\_

Teacher: \_\_\_\_\_

Class/ Block: \_\_\_\_\_

Date: \_\_\_\_\_

5. There's a free Cardi B concert at Centennial Park this Friday and promoters are expecting a massive crowd. If one person takes up 3.75 square feet of space, how many people should they expect if the park is in an area that is 9 yards deep and 3.25 miles long?

6. A game is packaged in a box. Each game cube has a side length of 2 inches. How many games can be packed inside of a box whose dimensions are 1 foot by 1 foot by 2 feet?

7. A golf ball has a diameter of 1.6 in. How many golf balls will fit inside of a storage unit that is

10 feet wide, 20 feet long, and 8 feet high? (Volume of a sphere =  $\frac{4}{3}\pi r^3$ )

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8. A golf ball has a diameter of 1.2 in. How many golf balls will fit inside of a storage box that is 4 feet wide, 12 feet long, and 3 feet high? (Volume of a sphere =  $\frac{4}{3}\pi r^3$ )
9. A game is packaged in a box. Each game cube has a side length of 3.7 inches. How many games can be packed inside of a box whose dimensions are 3 foot by 3 foot by 5 feet?
10. A golf ball has a diameter of 1.6 in. How many golf balls will fit inside of a storage unit that is 14 feet wide, 23 feet long, and 9 feet high? (Volume of a sphere =  $\frac{4}{3}\pi r^3$ )
11. A golf ball has a diameter of 7 in. How many golf balls will fit inside of a storage unit that is 10 feet wide, 10 yards long, and 88 inches high? (Volume of a sphere =  $\frac{4}{3}\pi r^3$ )

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12. A game is packaged in a box. Each game cube has a side length of 5 inches. How many games can be packed inside two boxes whose dimensions are 2 yards by 4 feet by 9 feet?

13. A game is packaged in a shipping box due to a company in 5 days. Each game cube has a side length of 2.5 inches. How many games can be packed inside a shipping container whose dimensions are 5 feet by 4 feet by 9 feet?

14. A golf ball has a diameter of 1.4 in. How many golf balls will fit inside of a storage unit that is 12 feet wide, 15 feet long, and 10 feet high? (Volume of a sphere =

$$\frac{4}{3}\pi r^3)$$