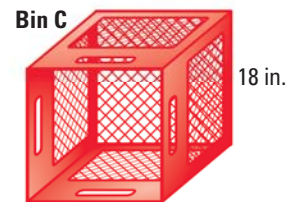


53. **FOOTBALL** A football team's net score for the regular season is given by the expression $a - b$ where a is the total number of points the team scored and b is the total number of points scored against the team. The table shows the point totals for the 2003 National Football League Conference Champions. Which team's net score was greater?

Team	Points scored, a	Points scored against, b
New England Patriots	336	238
Carolina Panthers	325	304

54. **TAKS REASONING** A manufacturer produces three different sizes of cube-shaped stacking bins with edge lengths as shown.



- Evaluate** Find the volume of each bin.
- Compare** How many times greater is the edge length of bin B than the edge length of bin A? How many times greater is the volume of bin B than the volume of bin A?
- Compare** Answer the questions in part (b) for bin A and bin C.
- CHALLENGE** Explain how multiplying the edge length of a cube by a number n affects the volume of the cube. Justify your explanation.

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55. **CHALLENGE** You purchase a set of 100 cube-shaped miniature magnets, each with an edge length of $\frac{1}{8}$ inch. You arrange the cubes to form larger cubes, each one with a different edge length. How many cubes can you form? What is their total volume?

 **MIXED REVIEW FOR TAKS** **TAKS PRACTICE** at classzone.com

REVIEW

Skills Review
Handbook p. 924;
TAKS Workbook

56. **TAKS PRACTICE** A fence that surrounds a rectangular portion of a field is 32 feet long. If one side of the fence is 10 feet long, which of the following is the length of another side? **TAKS Obj. 7**

(A) 6 ft (B) 8 ft (C) 11 ft (D) 22 ft

REVIEW

Skills Review
Handbook p. 924;
TAKS Workbook

57. **TAKS PRACTICE** Half of the money a company earns is used to pay for workers' wages, and $\frac{1}{4}$ of the earnings is used to pay for supplies. An additional 10% of the earnings is used to pay for advertising, and the rest is profit. What percent of the company's earnings is profit? **TAKS Obj. 9**

(F) 10% (G) 15% (H) 25% (J) 35%