

Assessment : Section D Checkpoint

Problem 1

Goals Assessed

- Use the four operations to solve problems that involve multi-digit whole numbers and assess the reasonableness of answers.

Statement

A rectangular garden is 11 yards long and 9 feet wide. How many square feet is the area of the garden? Explain or show your reasoning.

Solution

297 square feet. Sample reasoning: I know that 11 yards is 33 feet so the area is 9×33 feet. I know $9 \times 3 = 27$ and $9 \times 30 = 270$ and $27 + 270 = 297$.

Problem 2

Goals Assessed

- Use the four operations to solve problems that involve multi-digit whole numbers and assess the reasonableness of answers.

Statement

Tyler scored 126 points in 9 basketball games.

1. If Tyler scored the same number of points each game, how many points did he score in each game? Explain or show your reasoning.
2. Diego scored 5 more points than Tyler did in each game. How many points did Diego score in the 9 games? Explain or show your reasoning.

Solution

1. 14 points. Sample reasoning: I know that $10 \times 9 = 90$ and $4 \times 9 = 36$ and $90 + 36 = 126$. So I added 10 and 4.
2. 171 points. Sample reasoning: $126 + (9 \times 5) = 126 + 45 = 171$.