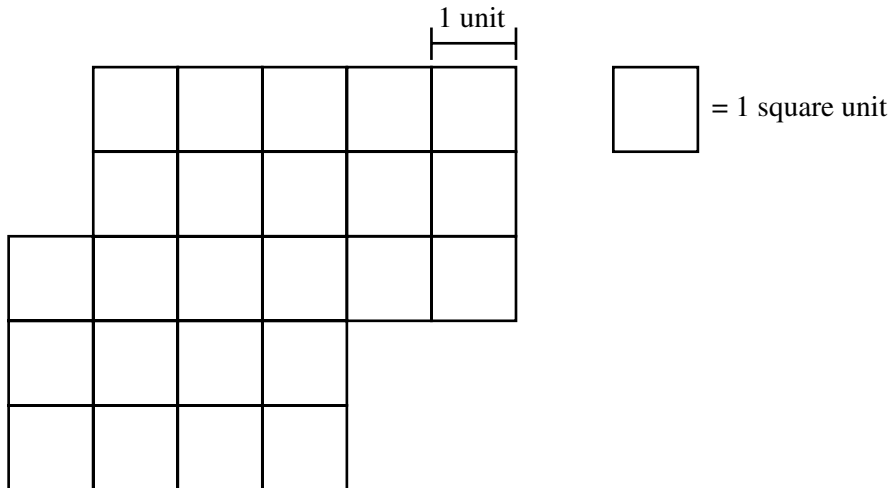


Session 1, Open-Response Question



- 17** The picture below shows the shape of a new playground.



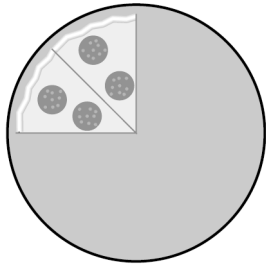
- a. What is the perimeter of the playground? Explain how you got your answer using pictures, numbers, or words.
- b. What is the area in square units of the playground? Explain how you got your answer using pictures, numbers, or words.
- c. Another plan for the playground would make it a square shape with a perimeter of 32 units. What would be the area of this playground in square units? Explain how you got your answer using pictures, numbers, or words.

Reporting Category for Item 17: Measurement

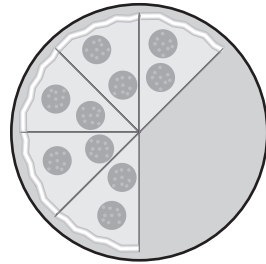
Mathematics, Grade 4

- 20 Jesse and Fred shared a pizza. Jesse ate $\frac{1}{8}$ of the pizza, and Fred ate $\frac{1}{2}$ of the pizza. Which picture shows how much pizza was **left**?

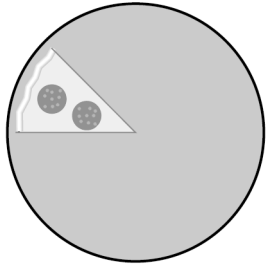
A.



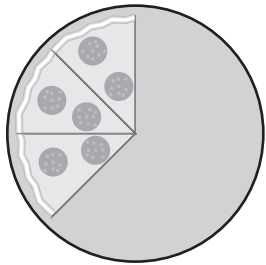
B.



C.



D.



Reporting Category for Item 20: *Number Sense and Operations*