

# SESSION 1

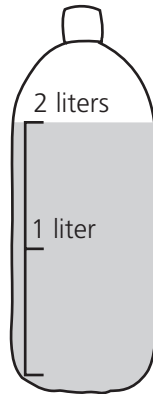
This session contains 25 multiple-choice questions. Fill in the circle for your answer to each multiple-choice question.

You may use a ruler during this session. You may **not** use a calculator during this session.

SAMPLE

**Directions: Read each problem. Then fill in the circle of the best answer.**

- 1** Tanner has 8 bottles of lemonade.



How many liters of lemonade does Tanner have in all?

- (A) 4 liters
- (B) 6 liters
- (C) 10 liters
- (D) 16 liters

- 2** Seth made the number line shown below.



He drew curved lines from one point to the next. What is the value of one curved line?

- (A)  $\frac{1}{6}$
- (B)  $\frac{1}{5}$
- (C)  $\frac{1}{2}$
- (D)  $\frac{1}{4}$

## SESSION 2

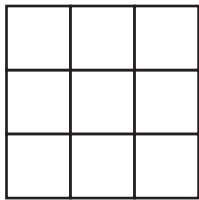
This session contains eight multiple-choice questions, six short constructed-response items, and one extended constructed-response item. Fill in the circle for your answer to each multiple-choice question. Write your answers for the constructed-response items in the spaces provided.


You may use a ruler during this session. You may **not** use a calculator during this session.

SAMPLE

**28**

Charlene made a book cover. She covered the book with square pieces of paper as shown below.



 = 1 square unit

She wants to make another book cover with an area that is 6 times the area of this book cover. How many pieces of paper does she need for the second cover?

- (A) 15
- (B) 45
- (C) 54
- (D) 72

**29**

Dante's friends helped him paint his house. He divided buckets of paint equally with 3 friends. Each friend and Dante got 6 gallons of paint. The number sentence below shows how the paint was divided.

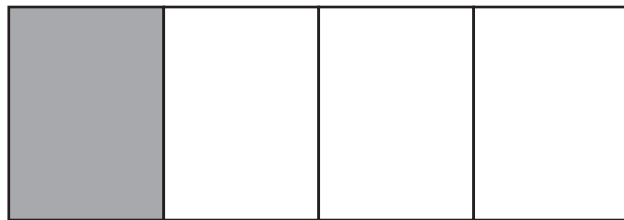
$$\square \div 4 = 6$$

Each bucket of paint holds 2 gallons of paint. How many buckets did Dante start with?

- (A) 12
- (B) 24
- (C) 26
- (D) 48

37

Look at the rectangle below.



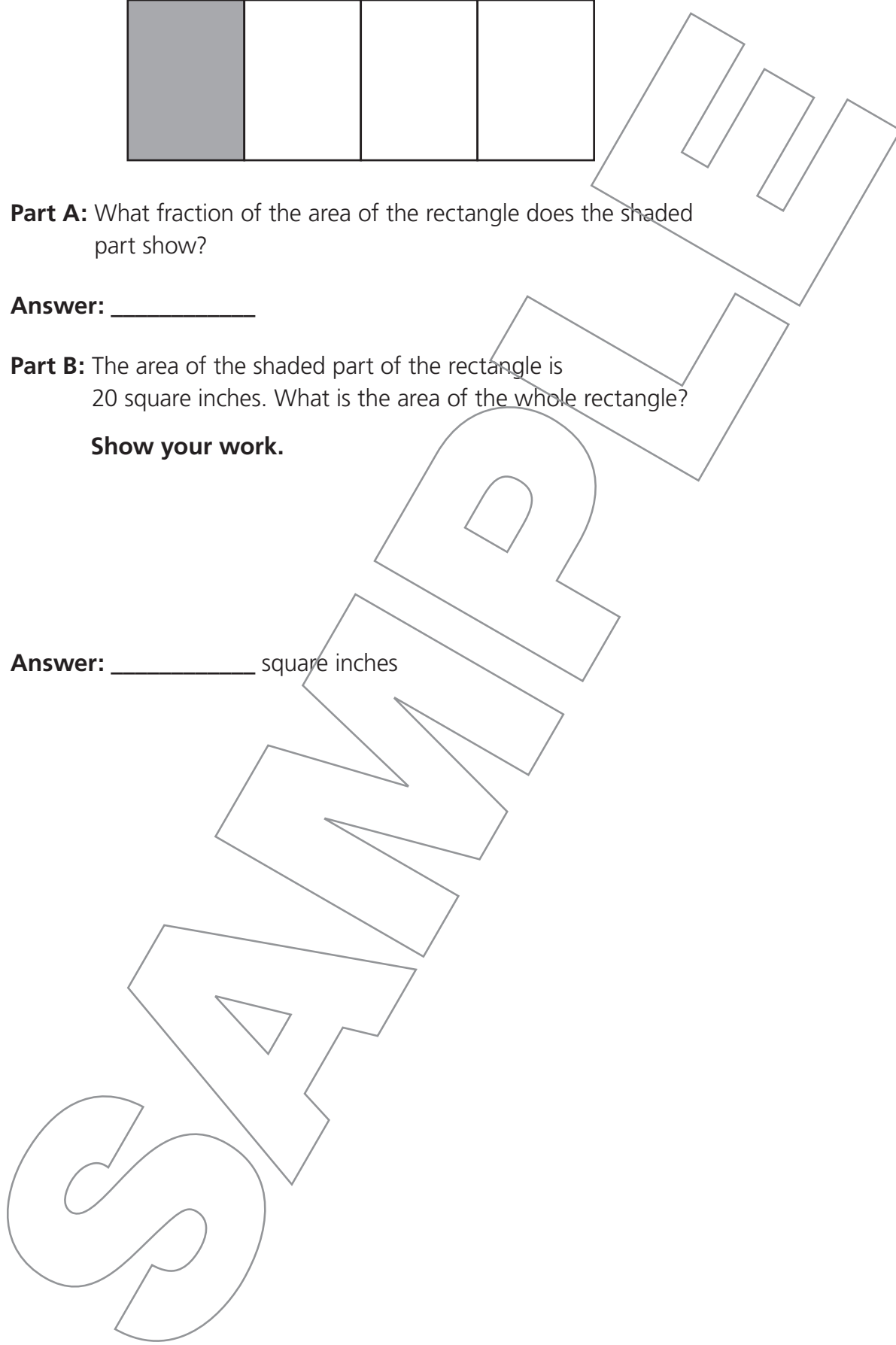
**Part A:** What fraction of the area of the rectangle does the shaded part show?

**Answer:** \_\_\_\_\_

**Part B:** The area of the shaded part of the rectangle is 20 square inches. What is the area of the whole rectangle?

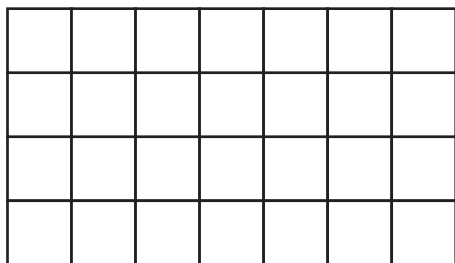
**Show your work.**


**Answer:** \_\_\_\_\_ square inches

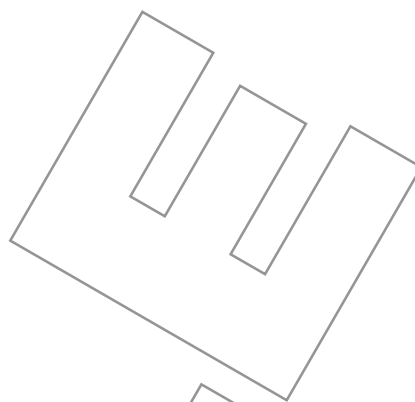


40

This rectangle is made of square tiles.



 = 1 square foot



**Part A:** What is the area, in square feet, of the rectangle?

**Answer:** \_\_\_\_\_ square feet

**Part B:** What is the perimeter, in feet, of the rectangle?

**Answer:** \_\_\_\_\_ feet

**Part C:** How could you use square tiles to create a rectangle with the same area but a different perimeter? Explain your answer.

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