



**NEW ENGLAND
COMMON ASSESSMENT PROGRAM**

Student Practice Test Booklet

Grade 6

Mathematics

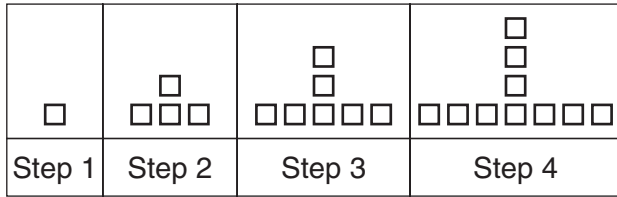
Student Name: _____

School Name: _____

Mathematics—Session 1 (Non-Calculator)

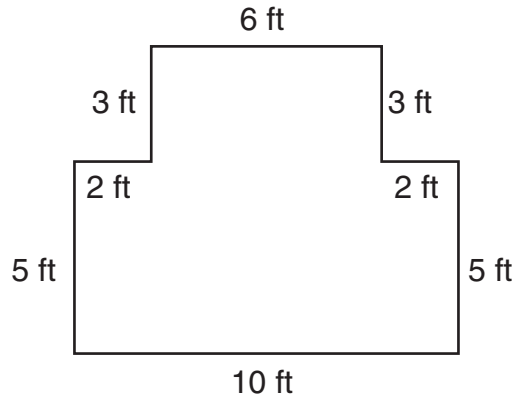
Answer questions 1 through 4 on page 2.

- 1 Look at this pattern of squares.



If the pattern continues, how many squares are needed to make Step 8?

- 2 Look at this figure.



What is the area of this figure?

- A. 36 square feet
- B. 68 square feet
- C. 70 square feet
- D. 74 square feet

- 3 The table below shows the cups of raisins needed in four different recipes.

Recipe	Cups of Raisins
Cookies	$\frac{9}{4}$
Muffins	$\frac{15}{8}$
Bread	$1\frac{3}{4}$
Trail mix	$2\frac{1}{8}$

Which recipe uses the greatest number of cups of raisins?

- A. cookies
- B. muffins
- C. bread
- D. trail mix

4 Look at this bar graph.



What is the median price of the sneakers sold at this shoe store?

- A. \$30
- B. \$40
- C. \$50
- D. \$60

Answer question 5 on page 2.

- 5 Joel read n books during the summer. Michael read 5 more than 3 times the number of books Joel read.

Use n to write an expression for the number of books Michael read during the summer.

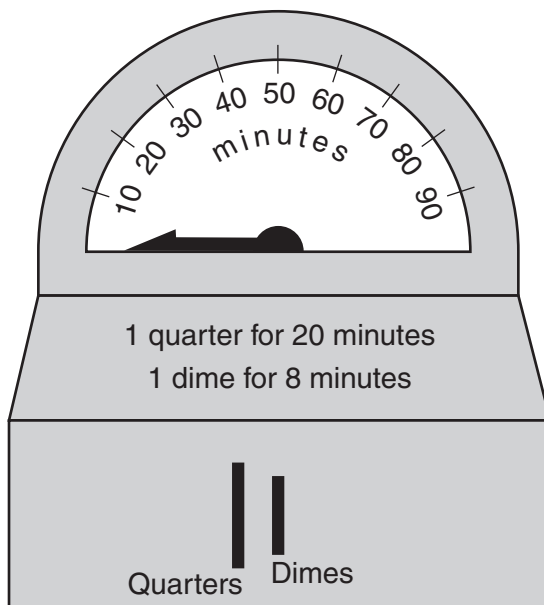
Answer question 6 on page 2.

- 6 In an orchard there are only Cortland apple trees and Macintosh apple trees. There are a total of 168 apple trees.
- In the orchard there are 6 rows of Cortland apple trees and 8 rows of Macintosh apple trees.
 - Each row in the orchard contains the same number of apple trees.

What is the total number of **Cortland apple trees** in the orchard? Show your work or explain how you know.

Answer question 7 on page 2.

- 7 Look at this parking meter.



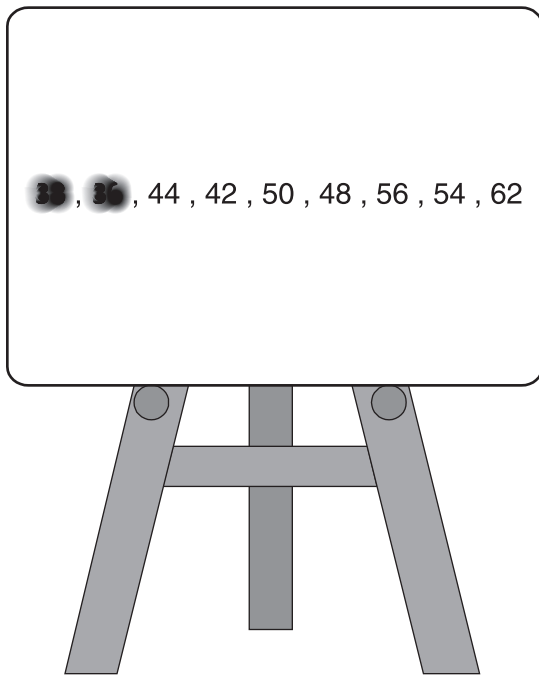
When the meter is at 0 minutes, what is the **least** amount of money Mr. Blaine will have to pay to park at the meter for 70 minutes? Show your work or explain how you know.



Mathematics—Session 2 (Calculator)

Answer questions 8 through 11 on page 3.

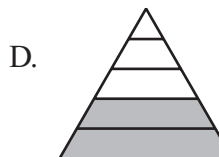
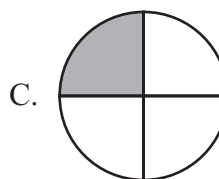
- 8 Raven wrote a number pattern on the board, as shown below.



The first two numbers in Raven's pattern got erased. What were the first two numbers in Raven's pattern?

- A. 50, 52
- B. 50, 42
- C. 38, 36
- D. 34, 36

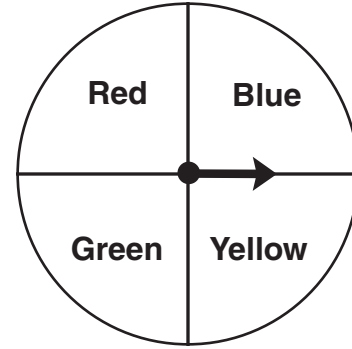
- 9 Which model is shaded gray to represent $\frac{2}{5}$ of the model?



- 10 A pizzeria uses the equation $c = 2 \cdot t + 6$ to find the cost, c , in dollars of a pizza with t toppings. How many toppings are on a pizza that costs 14 dollars?

- A. 10
- B. 6
- C. 4
- D. 1

- 11 During a class activity, Kyle spun the arrow shown below many times.



The arrow landed on blue 12 times. Which is **most likely** the number of times Kyle spun the arrow?

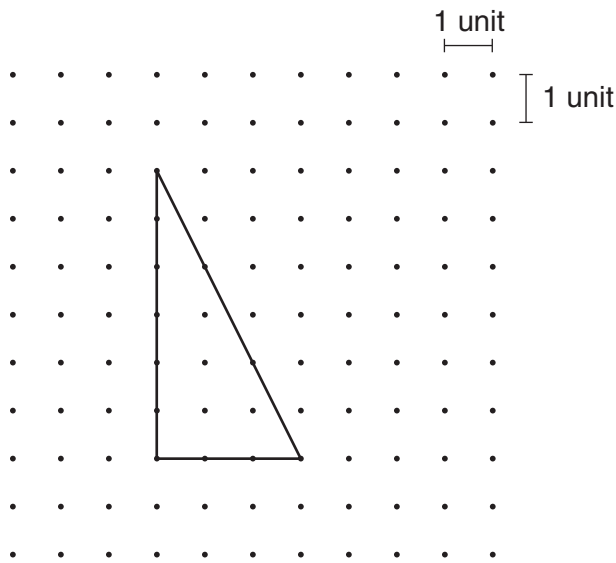
- A. 25
- B. 50
- C. 100
- D. 400

Answer question 12 on page 3.

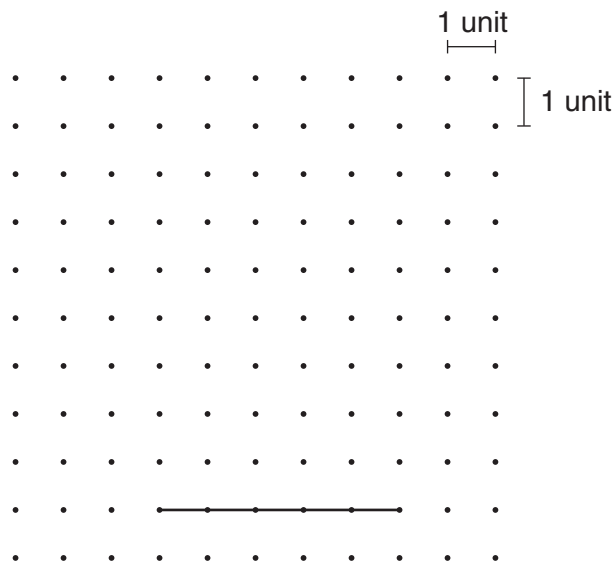
- 12 Mr. Levy needs 70 buttons to finish making the costumes for a school play. Buttons are sold in packages of 4. What is the fewest number of packages Mr. Levy needs to buy?

Answer question 13 on page 3.

13 Sabrina drew the right triangle shown below.



- a. What is the area of Sabrina's triangle? Show your work or explain how you know.
- b. Luke wants to draw a right triangle with an area of 20 square units. He first drew the base of his triangle, as shown below.



What should be the height of Luke's triangle? Show your work or explain how you know.

