

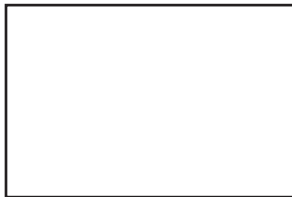
Session 2A — Mathematics
(Calculator Not Allowed) Practice Test

MATHEMATICS (CALCULATOR NOT ALLOWED) — SESSION 2A

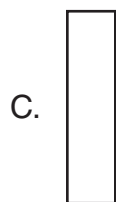
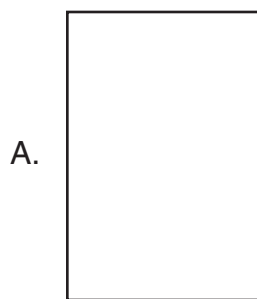
This practice session has ten multiple-choice questions, two short-answer questions, and one constructed-response question.

Choose the best answer for each multiple-choice question. Fill in the bubble next to your answer choices for questions 1 through 10 on page 2 of your practice test answer booklet. Multiple-choice questions are worth 1 point each.

Use the rectangle below to answer question 1.



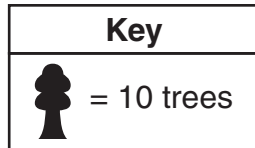
- 1 Which rectangle is congruent to the rectangle above?







- 2 Which are the most like parallel line segments?
- A. two rails in a straight section of railroad tracks
 - B. an intersection where two straight streets cross each other
 - C. the place where a straight tree branch joins the trunk of the tree
 - D. the hands of a clock at 9:00
- 3 There are Δ cars in a parking lot. Each car has 4 tires on the wheels and a spare tire in the trunk. Which expression represents the total number of tires for the cars in this parking lot?
- A. $4 \times \Delta$
 - B. $5 \times \Delta$
 - C. $4 \times \Delta + 1$
 - D. $5 \times \Delta + 1$

PLEASE GO ON →

- 4 Tia makes a pictograph with the key shown below.



How should Tia show 35 trees?

- A. 
- B. 
- C. 
- D. 

- 5 Three students guessed the population of their state. They wrote their guesses on the cards shown below.

965,385	1,000,000	940,529
Paul	Trish	Kirk

Which list shows their guesses in order from **least** to **greatest**?

- A.

1,000,000	940,529	965,385
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- B.

940,529	965,385	1,000,000
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- C.

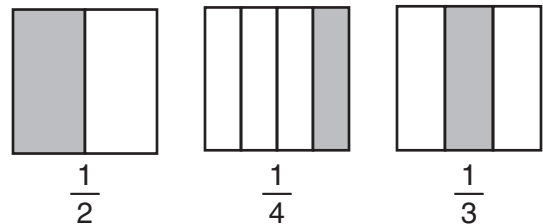
1,000,000	965,385	940,529
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- D.

940,529	1,000,000	965,385
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- 6 Jill has 72 pretzels. She gave some pretzels away. Now she has 24 pretzels. Which number sentence can be used to find the number of pretzels Jill gave away?

- A. $24 - \square = 72$
- B. $\square - 24 = 72$
- C. $72 - \square = 24$
- D. $72 + \square = 24$

- 7 Clarissa shaded the squares below to show fractions.

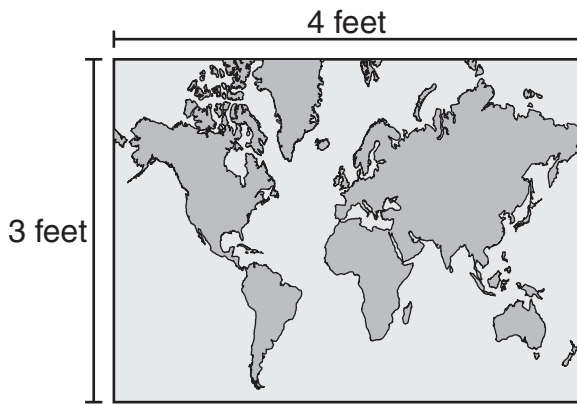


Which list of fractions is in order from **least** to **greatest**?

- A. $\frac{1}{2}, \frac{1}{3}, \frac{1}{4}$
- B. $\frac{1}{3}, \frac{1}{2}, \frac{1}{4}$
- C. $\frac{1}{4}, \frac{1}{3}, \frac{1}{2}$
- D. $\frac{1}{2}, \frac{1}{4}, \frac{1}{3}$

PLEASE GO ON 

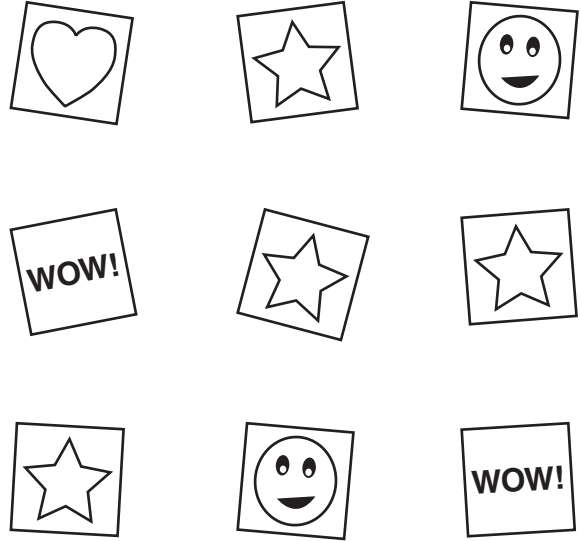
8 Look at the map shown below.



What is the perimeter of this map?

- A. 7 feet
- B. 12 feet
- C. 14 feet
- D. 16 feet

9 Gregory puts the stickers shown below in a bag.

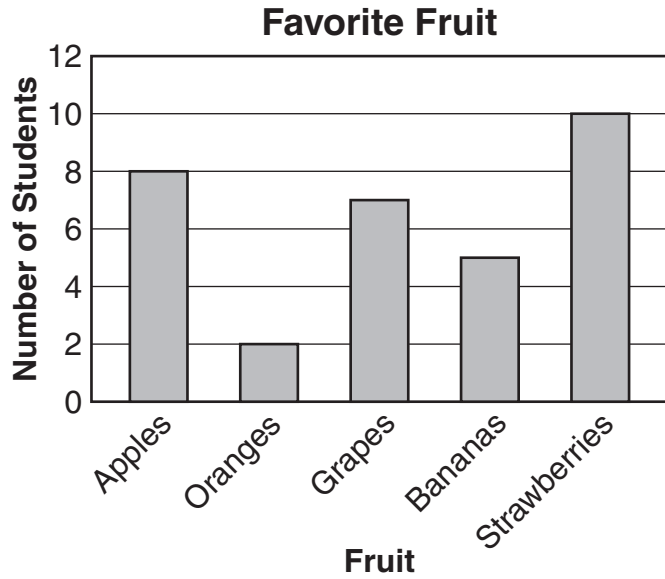


Gregory picks one sticker from the bag without looking. Which type of sticker is he **least likely** to pick?

- A. 
- B. 
- C. 
- D. 

PLEASE GO ON →

- 10 Mr. Jackson made the graph below to show his students' favorite fruits.



How many more students chose apples than oranges as their favorite fruit?

- A. 2
- B. 3
- C. 4
- D. 6

PLEASE GO ON →

Write your answers to short-answer questions 11 and 12 in the boxes provided on page 2 of your practice test answer booklet. Short-answer questions are worth up to 2 points each.

- 11 Sarah walks for exercise. She records the number of minutes she walks in the table below.

Walking Time

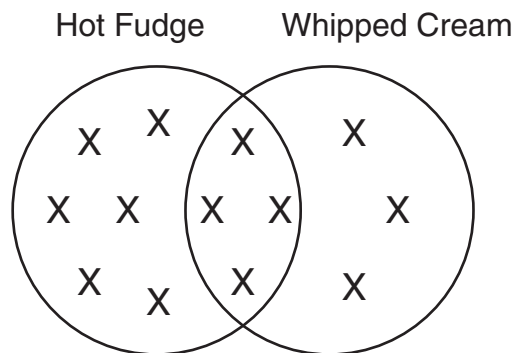
Day	1	2	3	4	5	6
Minutes	6	12	18	24		

Sarah continues the pattern of walking times shown in the table.

- How many minutes will she walk on Day 6?
- What will be the first day that she walks for 60 minutes?

Be sure to label parts a and b in your answer booklet.

- 12 Mrs. Ryan's students made the Venn diagram below to show the toppings they put on their ice cream.



Key
X stands for 1 student

- How many students put whipped cream on their ice cream?
- Howard said, "Only six students put hot fudge on their ice cream." Do you agree with Howard? Explain why or why not.

Be sure to label parts a and b in your answer booklet.

PLEASE GO ON ➡

Write your answer to constructed-response question 13 in the box provided on page 3 of your practice test answer booklet. Constructed-response questions are worth up to 4 points each.

- 13 The chart below shows the number of markers sold in small and large boxes.

Markers

Box Size	Number of Markers
Small	8
Large	16

Shawn bought 4 large boxes of markers.

- a. How many markers did he buy altogether? Show or explain how you found your answer.

Catherine bought 4 small boxes of markers and 1 large box of markers.

- b. How many markers did she buy altogether? Show or explain how you found your answer.

David bought some large and small boxes of markers. He bought a total of 40 markers.

- c. Show one way he could have bought the 40 markers.

Be sure to label parts a, b, and c in your answer booklet.



**Session 2B — Mathematics
(Calculator Allowed) Practice Test**

MATHEMATICS (CALCULATOR ALLOWED) — SESSION 2B

This practice session has six multiple-choice questions and one short-answer question.

Choose the best answer for each multiple-choice question. Fill in the bubble next to your answer choices for questions 14 through 19 on page 4 of your practice test answer booklet. Multiple-choice questions are worth 1 point each.

- 14 Wendy bought a notebook that has 150 pages. She used 64 pages to draw pictures and 38 pages to write stories. How many pages does Wendy have left?

A. 48
B. 86
C. 102
D. 252

- 15 Look at the number sentence below.

$$\square \times 5 = 10$$

What number belongs in the box?

A. 2
B. 5
C. 15
D. 50

- 16 Which unit would be **best** for measuring the mass of a glue stick?

A. gram
B. millimeter
C. kilogram
D. liter

- 17 Each square stands for the **same** number in the number sentences below.

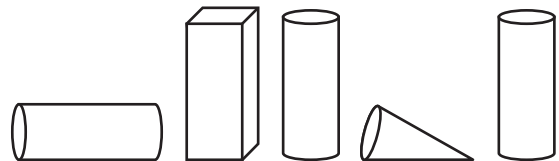
$$\square \times \square = 9$$

$$10 + \square = \bigcirc$$

What number does the **circle** stand for?

A. 19
B. 13
C. 7
D. 3

- 18 Terrell put the solid shapes shown below on his desk.

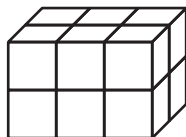


How many cylinders did Terrell put on his desk?

A. 1
B. 2
C. 3
D. 4

PLEASE GO ON →

- 19 Denise used cubes to make the prism shown below.

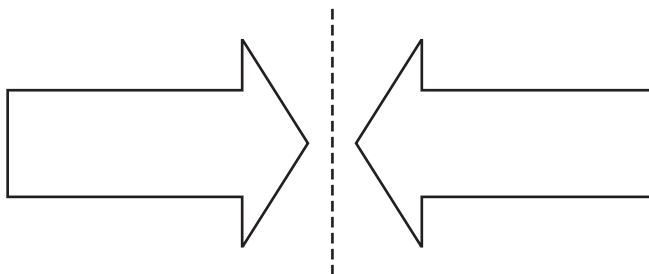


How many cubes did Denise use to make this prism?

- A. 6
- B. 10
- C. 12
- D. 16

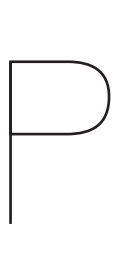
Write your answer to short-answer question 20 in the box provided on page 4 of your practice test answer booklet. Short-answer questions are worth up to 2 points each.

- 20 Brendan moved the arrow shown below using a transformation:



- a. What transformation did Brendan use to move the arrow?

Brendan used the same transformation to move the letter P shown below.



- b. Copy the letter P and the dotted line in your answer booklet. Draw the letter after the transformation.

Be sure to label parts a and b in your answer booklet.

