

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

# MATHEMATICS (CALCULATOR NOT ALLOWED) — SESSION 2A

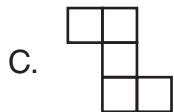
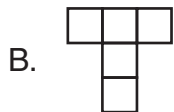
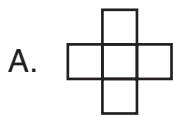
This practice session has four multiple-choice questions and one constructed-response question.

Choose the best answer for each multiple-choice question. Fill in the bubble next to your answer choices for questions 1 through 4 on page 2 of your practice test answer booklet. Multiple-choice questions are worth 1 point each.

- 1 A warehouse worker shipped 289 boxes of notebooks. Each box contained 36 notebooks. What was the total number of notebooks shipped?

A. 2,601  
B. 9,404  
C. 10,404  
D. 10,413

- 2 Which figure has **only one** line of symmetry?



- 3 At a potato chip factory, 4,200 pounds of potatoes are baked in a 1-hour period. Which is the **closest** estimate for the number of pounds of potatoes baked in a 24-hour period?

A. 100,000  
B. 112,500  
C. 120,000  
D. 800,000

- 4 The chart below shows the number of cups of different types of flour Lance needs to make two loaves of three-grain bread.

**Flour for Two Loaves of Bread**

Type of Flour	Cups
Wheat	$2\frac{3}{4}$
Rye	$\frac{3}{4}$
Oat	$2\frac{1}{4}$

What is the total number of cups of flour needed?

A.  $4\frac{3}{4}$   
B.  $4\frac{7}{12}$   
C.  $5\frac{1}{4}$   
D.  $5\frac{3}{4}$

PLEASE GO ON →

**Write your answer to constructed-response question 5 in the box provided on page 2 of your practice test answer booklet. Constructed-response questions are worth up to 4 points each.**

- 5 Jared wants to cook a turkey that weighs 10 pounds. The turkey needs to be cooked for 20 minutes for each pound it weighs.
- How long does the turkey need to cook? Show or explain how you found your answer.
  - When the turkey is done cooking, it needs to cool for 20 minutes. Jared wants to eat at 6:00 P.M. What is the latest time Jared can start cooking the turkey? Show or explain how you found your answer.

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



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

# MATHEMATICS (CALCULATOR ALLOWED) — SESSION 2B

This practice session has twelve multiple-choice questions and two short-answer questions.

Choose the best answer for each multiple-choice question. Fill in the bubble next to your answer choices for questions 6 through 17 on page 3 of your practice test answer booklet. Multiple-choice questions are worth 1 point each.

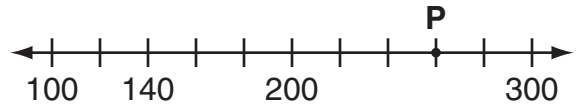
- 6 Ashley walks **less** than  $\frac{1}{2}$  of a mile to school. Which fraction could represent the distance she walks?

A.  $\frac{2}{5}$   
B.  $\frac{5}{10}$   
C.  $\frac{3}{5}$   
D.  $\frac{3}{4}$

- 7 Mr. White can divide his class into groups of 2 or 5 with no students left over. Which could be the number of students in Mr. White's class?

A. 15  
B. 25  
C. 30  
D. 32

Use the number line below to answer question 8.



- 8 What number does point P represent?

A. 230  
B. 240  
C. 250  
D. 260

- 9 What is the value of the expression  $2L + 2W$  when  $L = 10$  and  $W = 14$ ?

A. 24  
B. 28  
C. 48  
D. 280

PLEASE GO ON →

- 10 Solve for  $x$ .

$$54 - x = 18$$

- A. 3
- B. 36
- C. 44
- D. 72

- 11 Paul found the table shown below on the back of an iced tea mix.

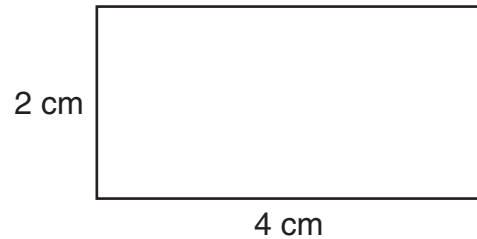
**Iced Tea Mix**

Servings	2	4	6
Iced Tea Mix	$\frac{1}{2}$ cup	1 cup	$1\frac{1}{2}$ cups
Water	1 cup	2 cups	3 cups

What is the rule for finding the amount of water to use?

- A. Divide the amount of iced tea mix by 4.
- B. Divide the amount of iced tea mix by 2.
- C. Multiply the amount of iced tea mix by 4.
- D. Multiply the amount of iced tea mix by 2.

- 12 Blake wants to divide the rectangle below into two congruent shapes.



Which could **not** be the two shapes?

- A. rectangles
- B. right triangles
- C. squares
- D. pentagons

- 13 In 1911, a race car driver won a race with an average speed of 74.62 miles per hour. What digit is in the tenths place in the number 74.62?

- A. 2
- B. 4
- C. 6
- D. 7

- 14 In the equations below,  $\triangle$  represents one number and  $\square$  represents another number.

$$\square + \square = 18$$

$$\triangle + \square = 17$$

What is the value of  $\triangle$ ?

- A. 9
- B. 8
- C. 7
- D. 6

PLEASE GO ON  $\rightarrow$

- 15 Isabelle uses 3 beads for each bracelet that she makes. Which chart shows the relationship between the number of bracelets she makes and the number of beads she uses?

A.

Number of Bracelets	Number of Beads
1	4
2	8
3	12
4	16

B.

Number of Bracelets	Number of Beads
3	3
6	6
9	9
12	12

C.

Number of Bracelets	Number of Beads
9	3
18	6
27	9
36	12

D.

Number of Bracelets	Number of Beads
3	9
6	18
9	27
12	36

- 16 Melissa uses the chart below to find the cost of shipping a package.

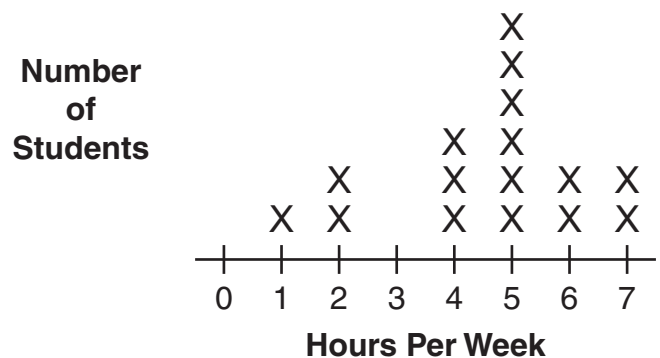
### Shipping Cost

Weight (in pounds)	Cost (in dollars)
1	4
2	8
3	12
4	16

Which expression can Melissa use to find the shipping cost for a package that weighs  $w$  pounds?

- A.  $w + 4$   
 B.  $w - 4$   
 C.  $w \div 4$   
 D.  $w \times 4$
- 17 The line plot below shows the estimated number of hours each of Ms. Roth's students spends on the computer every week.

### Ms. Roth's Class Computer Time



What is the range of these data?

- A. 4  
 B. 5  
 C. 6  
 D. 7

PLEASE GO ON →

Write your answers to short-answer questions 18 and 19 in the boxes provided on page 3 of your practice test answer booklet. Short-answer questions are worth up to 2 points each.

18 Hank sells small and large bags of apples. He charges \$4 for a small bag and \$6 for a large bag. He sold 18 small bags and 29 large bags. How much money was Hank paid for the bags of apples he sold? Show or explain how you found your answer.

19 The cook made 10 sandwiches for box lunches. There are

- 2 tuna,
- 5 peanut butter,
- 1 ham, and
- 2 cheese sandwiches.

A student picked one sandwich without looking. What is the probability the student picked a peanut butter sandwich? Show or explain how you found your answer.

