

Unit 1

(Non-Calculator)

Directions:

Today, you will take Unit 1 of the Grade Band 3/4 Mathematics Practice Test. You will not be able to use a calculator.

Read each question. Then, follow the directions to answer each question. Mark your answers by completely filling in the circles in your test booklet. Do not make any pencil marks outside of the circles. If you need to change an answer, be sure to erase your first answer completely. If a question asks you to show or explain your work, you must do so to receive full credit. Only responses written within the provided space will be scored.

If you do not know the answer to a question, you may go on to the next question. If you finish early, you may review your answers and any questions you did not answer in this unit ONLY. Do not go past the stop sign.

Directions for Completing the Answer Grids

1. Work the problem and find an answer.
2. Write your answer in the boxes at the top of the grid.
3. Print only one number or symbol in each box. Do not leave a blank box in the middle of an answer.
4. Under each box, fill in the circle that matches the number or symbol you wrote above. Make a solid mark that completely fills the circle.
5. Do not fill in a circle under an unused box.
6. See below for examples on how to correctly complete an answer grid.

EXAMPLES

To answer 632 in a question, fill in the answer grid as shown below.

6	3	2			
○	○	○	○	○	○
○	○	○	○	○	○
○	○	○	○	○	○
○	○	○	○	○	○
○	○	○	○	○	○
○	○	○	○	○	○
○	○	○	○	○	○
○	○	○	○	○	○
○	○	○	○	○	○
○	○	○	○	○	○
○	○	○	○	○	○
○	○	○	○	○	○
○	○	○	○	○	○
○	○	○	○	○	○
○	○	○	○	○	○
○	○	○	○	○	○
○	○	○	○	○	○
○	○	○	○	○	○

A brick path has 10 rows of 4 bricks. How many bricks are in the path?

Enter your answer in the box.

4	0				
○	○	○	○	○	○
○	○	○	○	○	○
○	○	○	○	○	○
○	○	○	○	○	○
○	○	○	○	○	○
○	○	○	○	○	○
○	○	○	○	○	○
○	○	○	○	○	○
○	○	○	○	○	○
○	○	○	○	○	○
○	○	○	○	○	○
○	○	○	○	○	○
○	○	○	○	○	○
○	○	○	○	○	○
○	○	○	○	○	○
○	○	○	○	○	○
○	○	○	○	○	○
○	○	○	○	○	○
○	○	○	○	○	○

1 Diana had 63 feet of rope. She cut the rope into 7 pieces of equal length.

Which expression represents the length, in feet, of each piece of rope?

Select one answer.

- Ⓐ 63×7
- Ⓑ $63 - 7$
- Ⓒ $63 + 7$
- Ⓓ $63 \div 7$

2 A window is in the shape of a rectangle. The perimeter of the window is 24 feet.

Which **two** pairs of measurements could be the length and width of the window?

Select the **two** correct answers.

- Ⓐ Length = 4 feet and width = 6 feet
- Ⓑ Length = 7 feet and width = 5 feet
- Ⓒ Length = 8 feet and width = 3 feet
- Ⓓ Length = 9 feet and width = 3 feet
- Ⓔ Length = 12 feet and width = 12 feet
- Ⓕ Length = 14 feet and width = 10 feet

3 What is the value of the following expression?

$$308 + 97$$

Enter your answer in the space provided.

•	•	•	•	•	•
0	0	0	0	0	0
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9

4 Byron will write a fraction that is equivalent to 1. The denominator is 2.

$$1 = \frac{\boxed{}}{2}$$

What number will Byron use in the numerator to write the fraction?

Enter your answer in the space provided.

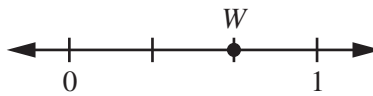
•	•	•	•	•	•
0	0	0	0	0	0
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9

5 What is the result when an even number is multiplied by 5?

Select one answer.

- Ⓐ The result is an even number with a 0 in the ones place.
- Ⓑ The result is an odd number with a 0 in the ones place.
- Ⓒ The result is an even number with a 5 in the ones place.
- Ⓓ The result is an odd number with a 5 in the ones place.

6 Point W represents a fraction on the number line.



Which fraction is represented by point W ?

Select one answer.

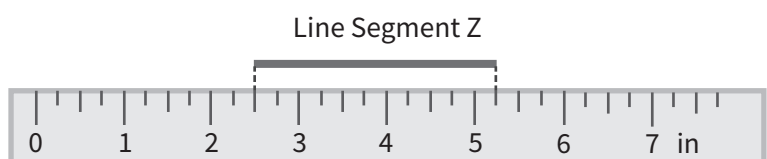
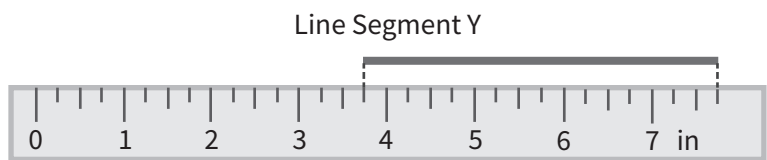
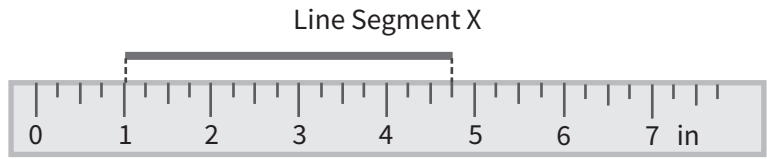
- Ⓐ $\frac{0}{3}$
- Ⓑ $\frac{1}{3}$
- Ⓒ $\frac{2}{3}$
- Ⓓ $\frac{3}{3}$

7 Round 148 to the nearest 10.

Enter your answer in the space provided.

•	•	•	•	•	•
0	0	0	0	0	0
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9

8 The following pictures show three line segments above three rulers. The rulers can be used to find the length, in inches, of each line segment.



Which table shows the length, in inches, of each line segment?

Select one answer.

(A)

Line Segment	Length (inches)
X	$3\frac{3}{4}$
Y	4
Z	$2\frac{3}{4}$

(B)

Line Segment	Length (inches)
X	$3\frac{3}{4}$
Y	4
Z	3

(C)

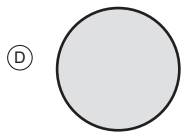
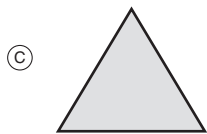
Line Segment	Length (inches)
X	$3\frac{1}{4}$
Y	$3\frac{3}{4}$
Z	$2\frac{1}{2}$

(D)

Line Segment	Length (inches)
X	$3\frac{3}{4}$
Y	4
Z	$2\frac{1}{2}$

9 Which shape is a quadrilateral?

Select one answer.





You have come to the end of Unit 1 of the test. Review your answers from Unit 1 only.





Unit 2 (Calculator)

Directions:

Today, you will take Unit 2 of the Grade Band 3/4 Mathematics Practice Test. You will be able to use a calculator.

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○	○	○	○	○	○
0	0	0	0	0	0
1	1	1	1	1	1
2	2	●	2	2	2
3	●	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
●	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9

A brick path has 10 rows of 4 bricks. How many bricks are in the path?

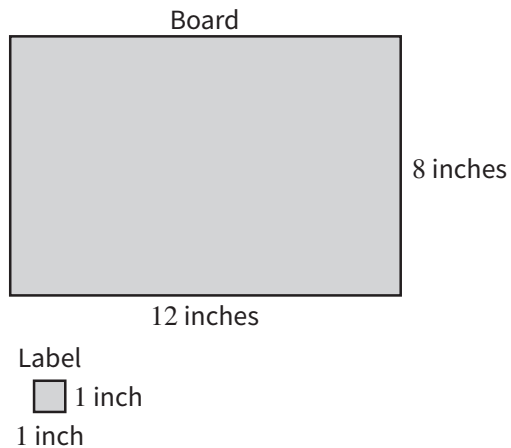
Enter your answer in the box.

4	0				
○	○	○	○	○	○
0	●	0	0	0	0
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
●	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9



- 1 Rafael will cover a rectangular board with square labels. He will buy packages of square labels. Each package contains 6 labels of the same size.

The following figure shows the side lengths of the board and of one label.



Part A

What is the least number of labels Rafael needs to cover the board? Show your work or explain how you found your answer.

Enter your answer and your work or explanation in the space provided.

**Part B**

What is the least number of packages of labels Rafael should buy? Show your work or explain how you found your answer.

Enter your answer and your work or explanation in the space provided.





You have come to the end of Unit 2 of the test. Review your answers from Unit 2 only.





Maryland Comprehensive
Assessment Program

**Grade Band 3/4
Mathematics
Practice Test**

