A

Student Name _____

School Name _____

District Name/LEA _____

PARCC

Grade 3
Mathematics
Performance Based Assessment
Practice Test

B | Last Name | First Name | MI

(A–Z bubble grid for Last Name, First Name, and MI)

C

Place the Student ID Label Here

D Gender
○ Female   ○ Male

E Date of Birth

Day	Month	Year

Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec

School Use Only

F State Student Identifier

(A–Z and 0–9 bubble grid)

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Unit 1

Directions:

Today, you will be taking Unit 1 of the Grade 3 Mathematics Practice Test.

Read each question carefully. Some questions will ask you to choose one correct answer, while others will ask you to choose more than one correct answer. Mark your answers by filling in the circles in your Test Booklet for the answers you choose.

If a question asks you to show or explain your work, you must do so to receive full credit. Be sure to:

- Write your response in the box provided in your Test Booklet.

- Label each part of your work if a question has multiple parts, and clearly identify your answer for each part.

- Respond in the box provided. Crossed-out work, writing that falls outside of the box, or work on scratch paper will <u>not</u> be scored.

Do not make any stray marks on the Test Booklet. If you need to change an answer, be sure to erase your first answer completely.

If you do not know the answer to a question, skip it and go on. If you finish Unit 1 of the test early, you may review your answers and any questions you may have skipped.

GO ON ▶

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.

   • Print your answer starting with the first digit in the left box.

   • Print only one digit or symbol in each box. You may not need all the boxes to enter an answer, but do <u>not</u> leave a blank box in the middle of an answer.

3. Under each box in which you wrote your answer, fill in the bubble that matches the number or symbol you wrote above.

   • Fill in one and ONLY one bubble for each box. Do <u>not</u> fill in a bubble under an unused box.

   • Fill in each bubble by making a solid mark that completely fills the circle.

   • Fractions cannot be entered into an answer grid and will not be scored. Enter fractions as decimals.

4. See below for examples on how to correctly complete an answer grid.

To answer 632 in a question, fill in the answer grid as follows:

To answer .75 in a question, fill in the answer grid as follows:

GO ON ▶

1. Gina's bedroom floor is in the shape of a rectangle. It is 10 feet long and 9 feet wide. What is the area of Gina's bedroom floor?

- Ⓐ 19 square feet
- Ⓑ 38 square feet
- Ⓒ 90 square feet
- Ⓓ 109 square feet

2. Which equations are true?

Select the **three** correct answers.

- Ⓐ $7 \div 7 = 0$
- Ⓑ $3 \times 4 = 12$
- Ⓒ $10 \div 5 = 5$
- Ⓓ $16 \div 2 = 8$
- Ⓔ $0 \times 6 = 0$

4

GO ON ▶

SERIAL #

Use the information provided to answer Part A and Part B for question 3.

Third-grade students took a total of 1,000 pictures for the yearbook during the school year.

- Ted took 72 pictures.
- Mary took 48 pictures.

3. **Part A**

What is the total number of pictures taken by the rest of the third-grade students during the school year?

Enter your answer in the box.

GO ON ▶

Part B

Ella took 8 more pictures than Ted took. How many more pictures did Ella take than Mary?

Enter your answer in the box.

SERIAL #

4. Each model equals one whole divided into equal parts. Which models show $\frac{1}{4}$ shaded?

Select the **three** correct answers.

Ⓐ

Ⓑ

Ⓒ

Ⓓ

Ⓔ

Ⓕ

GO ON ▶
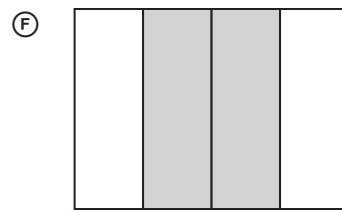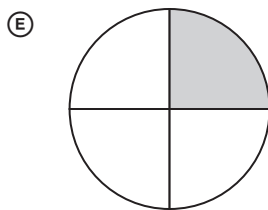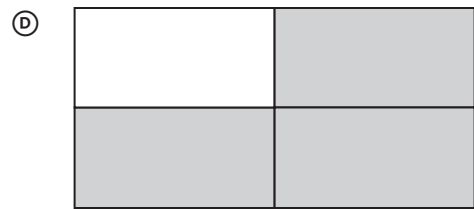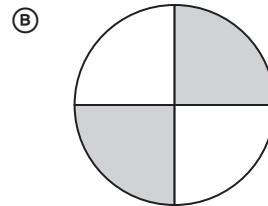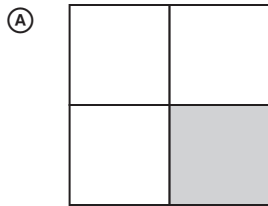
5. Which number line shows the correct location of the number $\frac{5}{3}$?
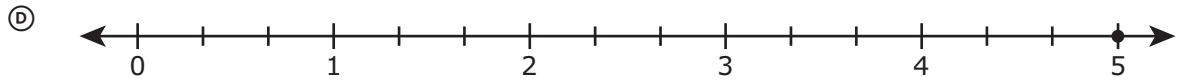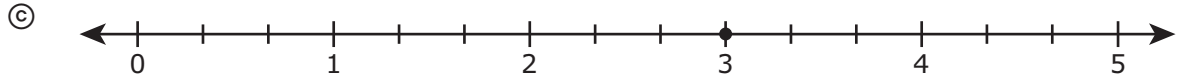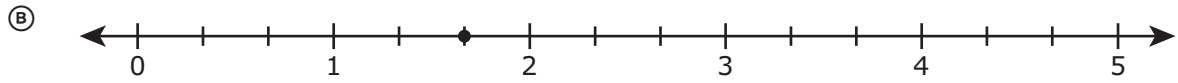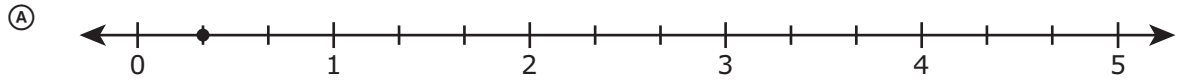
Ⓐ

Ⓑ

Ⓒ

Ⓓ

GO ON ▶

SERIAL #

Use the information provided to answer Part A and Part B for question 6.

Cindy is finding the quotient for $27 \div 9$. She says, "The answer is 18 because addition is the opposite of division and $9 + 18 = 27$."

---

6. **Part A**

Identify the incorrect reasoning in Cindy's statement.

Enter your explanation in the space provided.

GO ON ▶

Part B

Show or explain how Cindy can correct her reasoning.

Find the quotient when 27 is divided by 9.

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

10

7. Mia placed point *P* on the number line.
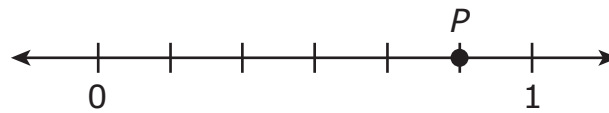
- Give the value of the number *P* as a fraction.
- What does the denominator of your fraction represent on the number line?
- What does the numerator of your fraction represent on the number line?

Enter your answer and your explanation in the space provided.

GO ON ▶

Use the information provided to answer Part A and Part B for question 8.

Tori and Leo set up their clubhouse with four tables. These rectangles represent the tabletops.

Table B

Table A

4 ft

2 ft

4 ft

3 ft

Table C

Table D

3 ft

3 ft

2 ft

4 ft

8. **Part A**

Identify **two** tabletops with the same area, and explain how you know that the areas are equal.

Enter your answers and your explanation in the space provided.

GO ON ▶

Part B

The grid shows Table C and Table D placed end to end to make a new, larger tabletop.

C   D

$\square$ = 1 square foot
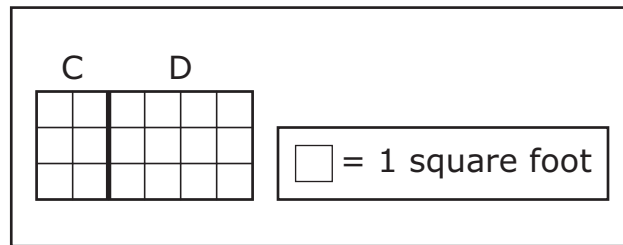
Tori uses the expression $3 \times (2 + 4)$ to find the total area of the new, larger tabletop.

Leo uses the expression $(3 \times 2) + (3 \times 4)$ to find the total area of the new, larger tabletop.

- Find the total area, in square feet, of the new, larger tabletop.
- Use the grid to explain why both Tori's expression and Leo's expression are correct.

Enter your answer and your explanation in the space provided.

GO ON ▶

9. A model of a playground is shown.

Find the area, in square meters, of the playground. Explain your answer using an equation or equations.

Enter your answer and your explanation using your equation or equations in the space provided.

GO ON ▶

10. Jane bought 24 light bulbs. The light bulbs come in packs of 4.

How many packs of light bulbs did Jane buy?

Enter your answer in the box.

·	·	·	·	·	·
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

11. Connie solved the math problem shown.

$$40 \div 8 = ?$$

Which equation can Connie use to check her answer?

Ⓐ $8 + ? = 40$

Ⓑ $40 + 8 = ?$

Ⓒ $8 \times ? = 40$

Ⓓ $8 \times 40 = ?$

GO ON ▶

SERIAL #

Use the information provided to answer Part A and Part B for question 12.

Mr. Kahn has a total of 148 balloons. He has 112 white balloons and equal numbers of red, blue, green, and yellow balloons.

12. Part A

How many red balloons does Mr. Kahn have?

- Ⓐ 8
- Ⓑ 9
- Ⓒ 32
- Ⓓ 36

Part B

Mr. Kahn gave away 8 blue balloons and 6 red balloons. He gave away 3 times the number of white balloons as red balloons. What was the total number of balloons Mr. Kahn gave away?

- Ⓐ 17
- Ⓑ 23
- Ⓒ 32
- Ⓓ 42

GO ON ▶

13. Gwen pours about 3 liters of water into a container.

Which arrow shows about how much water Gwen poured into the container?

Arrow 1 ⇨ — 4 liters
$\frac{1}{2}$
Arrow 2 ⇨ — 3 liters
$\frac{1}{2}$
Arrow 3 ⇨ — 2 liters
$\frac{1}{2}$
Arrow 4 ⇨ — 1 liter
$\frac{1}{2}$

Ⓐ   Arrow 1

Ⓑ   Arrow 2

Ⓒ   Arrow 3

Ⓓ   Arrow 4

GO ON ▶

SERIAL #

14. Which rectangle has an area of 24 square units?

□ = 1 square unit

Ⓐ

Ⓑ

Ⓒ

Ⓓ

GO ON ▶

15. Part A

Nolan has 16 pennies in one jar and 94 pennies in another jar.

He uses some of the pennies to buy a pencil that costs 25 cents. What is the total number of pennies Nolan has left after he buys the pencil? Show your work.

Enter your answer and your work in the space provided.

GO ON ▶

SERIAL #
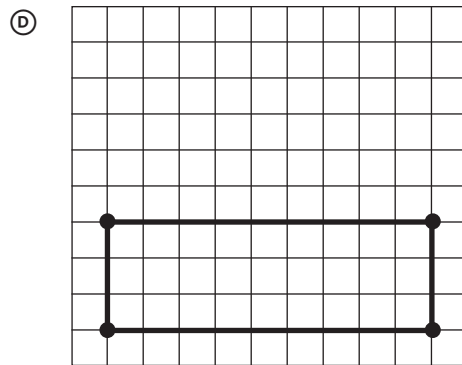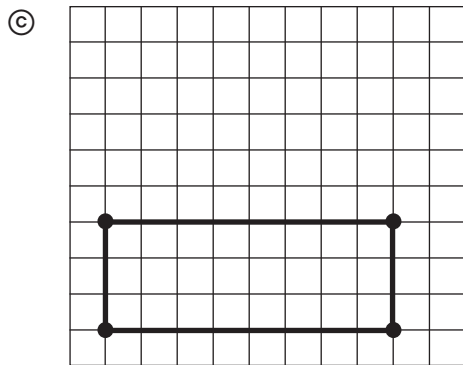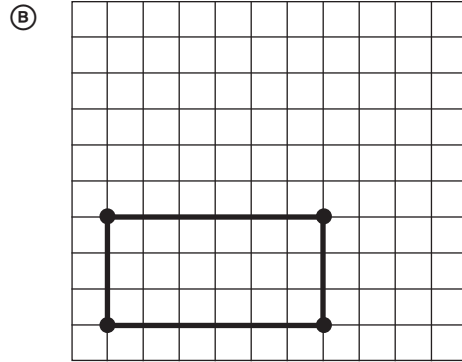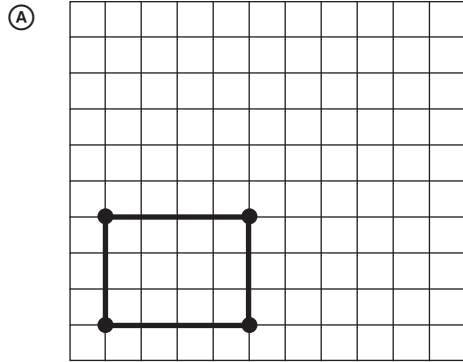
Part B

Nolan saves some more pennies and now has 187 pennies all in one jar.
He finds 10 more pennies in his pocket.

What is the total number of pennies Nolan has after he adds the
10 pennies from his pocket to the jar?

Enter your answer in the box.

Part C

The table shows the number of pennies Nolan saved each week for four weeks.

Pennies Saved Each Week

Week	Number of Pennies
Week 1	18
Week 2	40
Week 3	32
Week 4	25

What is the total number of pennies Nolan saved during the four weeks? Show your work.

Enter your answer and your work in the space provided.

GO ON ▶

SERIAL #

16. **Part A**

What is the number with the **least** value that can be made with the digits 6, 7, and 5 using all the digits only once?

Ⓐ 576

Ⓑ 657

Ⓒ 675

Ⓓ 567

GO ON ▶

Part B

Daniel says the number with the **greatest** value he can make with the digits 5, 7, and 6 using the digits only once is 657 because the 7 is in the place with the greatest value.

- Explain why Daniel is **not** correct.
- What is the number with the greatest value he can make using all the digits only once?
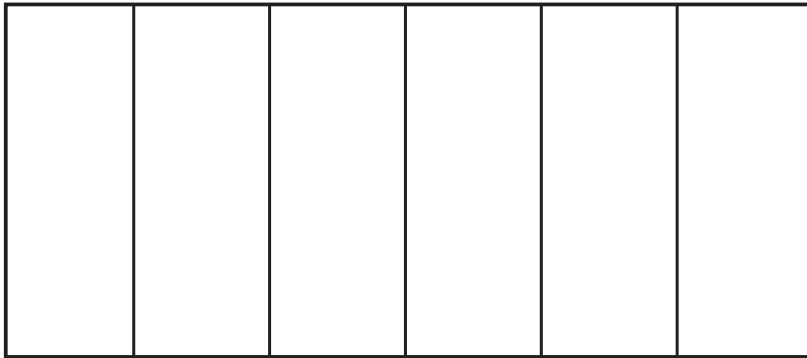- Explain how you know this number has the greatest value.

Enter your answer and your explanations in the space provided.

GO ON ▶

Use the information provided to answer Part A and Part B for question 17.

An artist plans to paint a wall in a room. The wall is divided into 6 equal parts so that each part can be painted a different color.

Artist's Wall

17. **Part A**

The artist goes to the store to buy brushes and small cans of paint. He pays a total of $94.

- He buys 8 brushes that cost $5 each.
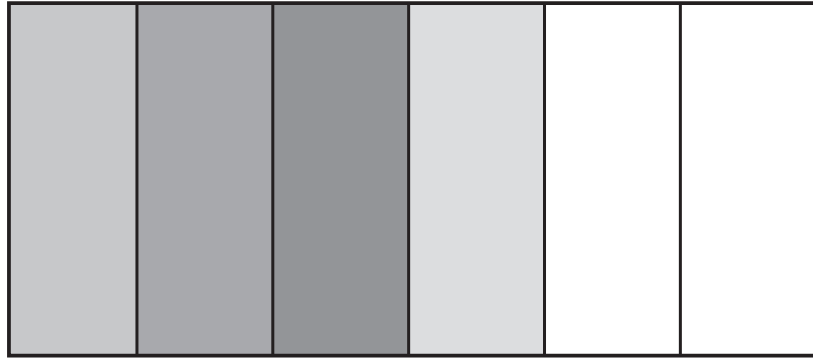- The rest of the money is used for the 6 cans of paint. Each can of paint costs the same amount.

How much does each can of paint cost? Show your work or explain your answer.

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

24

GO ON ▶

Part B

The artist starts painting the wall. The parts of the wall that look white are not painted yet.

Which statements about the wall are correct?

Select the **two** correct statements.

Ⓐ Each painted part is $\frac{1}{4}$ of the whole wall.

Ⓑ Each painted part is $\frac{1}{6}$ of the whole wall.

Ⓒ Each painted part is $\frac{4}{4}$ of the whole wall.

Ⓓ The fraction of the wall not yet painted is $\frac{1}{6}$.

Ⓔ The fraction of the wall not yet painted is $\frac{2}{4}$.

Ⓕ The fraction of the wall not yet painted is $\frac{2}{6}$.

STOP

SERIAL #

STOP

You have come to the end of the test.

- Review your answers.
- Then, close your test booklet and raise your hand to turn in your test materials.

STOP

SERIAL #

PARCC

Partnership for Assessment of
Readiness for College and Careers

Grade 3
Mathematics
Test Booklet

Performance Based Assessment
Practice Test