Name: _____

New York State Testing Program

2019 Mathematics Test Session 1

Grade 3

May 1–3, 2019

RELEASED QUESTIONS

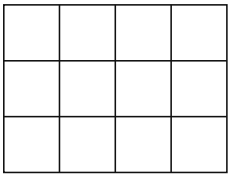
Session 1

TIPS FOR TAKING THE TEST

Here are some suggestions to help you do your best:

- Read each question carefully and think about the answer before making your choice.
- You have been provided with a ruler to use during the test. Use the ruler whenever you think it will help you to answer the question.

1 The array below represents a product.



Which expression can be used to find the product represented by the array?

A $4 + 3$

B $4 + 4 + 4 + 4$

C 3×4

D $3 \times 3 \times 3 \times 3$

2 Lucy is counting by 2s. She starts with the number 2 and stops at the number 50. Which number would Lucy **not** count?

A 11

B 22

C 34

D 48

3 Ms. Carter has 30 students in her classroom. She arranges them into 5 equal groups. Which expression represents how to find the number of students in each group?

A $30 + 5$

B $30 \div 5$

C $30 - 5$

D 30×5

GO ON

6 Jess scored 18 points during her last basketball game. Each basket she made was worth 2 points. How many baskets did she make?

A 20

B 16

C 9

D 8

7 A librarian receives two boxes of books for the library. The first box has 136 books. The second box has 58 fewer books than the first box. What is the total number of books the librarian receives?

A 58

B 78

C 194

D 214

8 Which two fractions should be plotted at the same location on a number line?

A $\frac{3}{4}$ and $\frac{4}{8}$

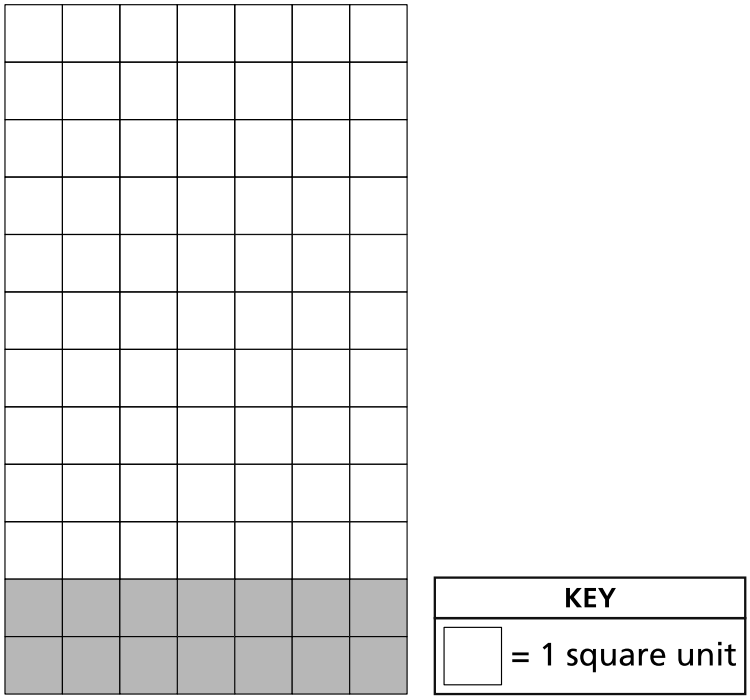
B $\frac{1}{4}$ and $\frac{2}{8}$

C $\frac{2}{4}$ and $\frac{4}{6}$

D $\frac{1}{2}$ and $\frac{2}{6}$

GO ON

15 The figure below represents a floor covered with white tiles and gray tiles.



Which expression could be used to find the area, in square units, of the entire floor?

A $(12 + 7) \times (12 + 7)$

B $(12 \times 7) + (12 \times 7)$

C $(10 + 7) \times (2 + 7)$

D $(10 \times 7) + (2 \times 7)$

16 Which expression is equivalent to $(5 + 2) \times 8$?

A $(8 \times 5) + (8 \times 2)$

B $(5 \times 8) + (5 \times 2)$

C $8 \times (5 \times 2)$

D $(5 \times 8) \times 2$

21 Which equation is true when the missing number is the number 7?

A $7 \times \underline{\ ?\ } = 42$

B $7 \times \underline{\ ?\ } = 49$

C $8 \times \underline{\ ?\ } = 40$

D $8 \times \underline{\ ?\ } = 48$

22 A number is rounded to the nearest hundred. The result is 500. Which number could **not** be the number before it was rounded to the nearest hundred?

A 458

B 463

C 547

D 559

23 Which statement is true?

A The product of 5×2 is even because both of the factors are even.

B The product of 4×4 is odd because both of the factors are even.

C The product of 2×7 is even because both of the factors are odd.

D The product of 5×3 is odd because both of the factors are odd.

GO ON

Grade 3
2019
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Name: _____

New York State Testing Program

2019 Mathematics Test Session 2

Grade 3

May 1–3, 2019

RELEASED QUESTIONS

Session 2

TIPS FOR TAKING THE TEST

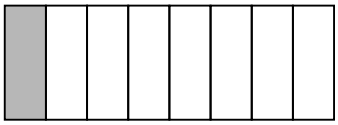
Here are some suggestions to help you do your best:

- Read each question carefully and think about the answer before making your choice or writing your response.
- You have been provided with a ruler to use during the test. Use the ruler whenever you think it will help you to answer the question.
- Be sure to show your work when asked.

26 The shape below is shaded to represent a fraction.

Which shape is shaded to represent a fraction equivalent to the shape shown above?

A



C

B

D

27 A store manager orders shirts from their warehouse. The shirts are packed into boxes and sent to the store, as described below.

- 81 shirts are ordered
- each shipping box holds 9 shirts

How many shipping boxes are needed for all of the shirts ordered?

A 8

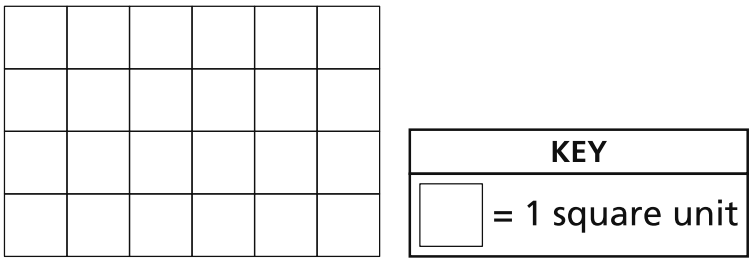
B 9

C 72

D 90

GO ON

28 Leeza used unit squares to find the area of the rectangle shown below.



What is the area, in square units, of the rectangle?

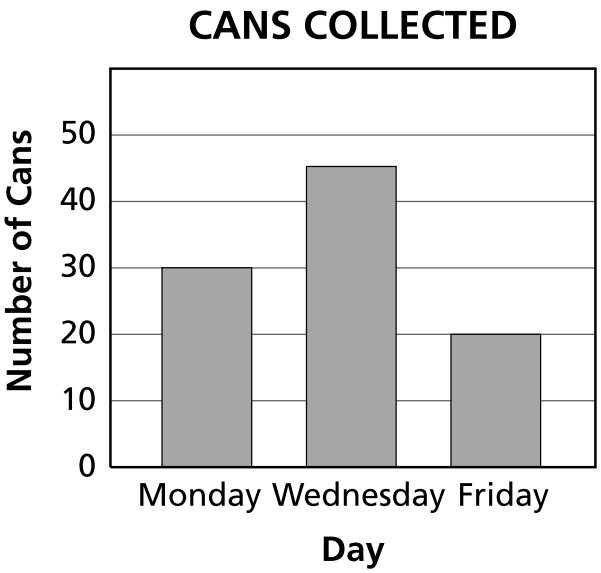
A 16

B 20

C 24

D 28

29 The students in Mr. Gazer's class are collecting cans for recycling. The bar graph below shows the number of cans they collected for each of three days.



How many more cans were collected on Wednesday than on Friday?

A 15

B 20

C 25

D 45

30 In which situation can the expression $64 \div 8$ be used?

A There are 8 buses with 64 students on each bus.

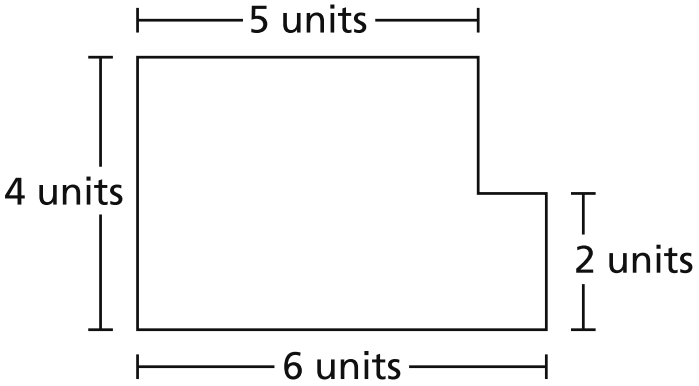
B Ms. Vance has 8 pens and 64 pencils in a container.

C There are 64 books in a bookcase and 8 books are removed.

D Mr. Juarez has 64 cups and puts an equal number on each of 8 tables.

GO ON

31 The figure below was made by combining two rectangles.



What is the total area, in square units, of the figure?

A 17

B 20

C 22

D 32

32 Which expression is equivalent to 4×9?

A $(4 \times 4) + (4 \times 5)$

B $(4 + 4) \times (4 + 5)$

C $(4 + 4) + (4 + 5)$

D $(4 \times 4) \times (4 \times 5)$

33 Coach Wu has a total of 30 soccer balls.

- 9 soccer balls are white
- the remaining soccer balls are one of three different colors (blue, pink, or green)
- there is an equal number of blue, pink, and green balls

How many green soccer balls does Coach Wu have?

A 7

B 10

C 21

D 39

GO ON

34 Wyatt wants to solve the equation below to find the missing factor.

$8 \times \underline{\ ?\ } = 24$

How can Wyatt find the missing factor by changing the equation to a division problem? Be sure to include the value of the missing factor in your answer.

Explain your answer.

35 Two families buy large sandwiches of the same size. Family A shares one sandwich equally among 4 people, as represented in the picture below.

Family B shares one sandwich equally between 2 people.

Will a person from Family A get the same amount or a different amount of a sandwich as a person from Family B ? Be sure to include what you know about fractions or parts of a whole in your answer.

Explain your answer.

36 Suzy made cupcakes for her friends. She started at 2:40 p.m. The list below shows the number of minutes it took to complete each step of the process.

- 9 minutes to mix the batter
- 18 minutes to bake the cupcakes
- 5 minutes to let them cool
- 10 minutes to frost the cupcakes

What time did Suzy finish frosting the cupcakes?

Show your work.

Answer _____ p.m.

37 Ashlynn rides her bike 2 miles to school and 2 miles home each day. How many total miles will Ashlynn ride her bike to school and home in 40 days?

Show your work.

Answer _____ miles

GO ON

38 Two figures are shown below.

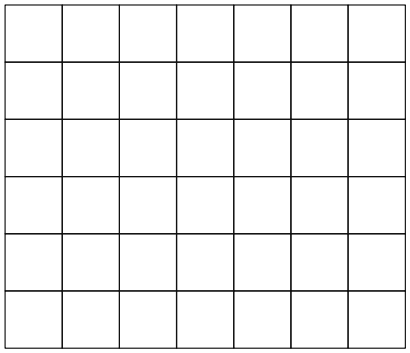
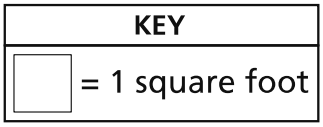


FIGURE A



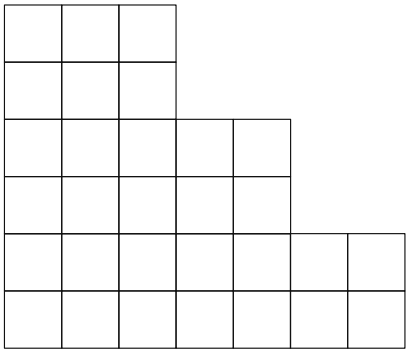


FIGURE B

What is the difference, in square feet, between the area of Figure A and the area of Figure B ?

Explain how you found your answer.

39 Gianna cuts a ribbon into equal pieces as shown below.

She uses 4 pieces of the ribbon for a project. What fraction of the ribbon does Gianna use for the project?

Explain how you found your answer.

40 Ms. Ross is making breakfast for her family. She makes 15 small pancakes to share equally among 3 people. How many small pancakes will each person get?

Show your work.

Answer _____ pancakes

Ms. Ross also wants to give each person a glass of orange juice. If each person gets 8 ounces, how many total ounces of orange juice does she need?

Show your work.

Answer _____ ounces

STOP

Grade 3
2019
Mathematics Test
Session 2
May 1–3, 2019

THE STATE EDUCATION DEPARTMENT
THE UNIVERSITY OF THE STATE OF NEW YORK / ALBANY, NY 12234
2019 Mathematics Tests Map to the Standards
Grade 3 Released Questions on EngageNY

Question	Type	Key	Points	Standard	Cluster	Subscore
Session 1						
1	Multiple Choice	C	1	CCSS.Math.Content.3.OA.A.1	Operations and Algebraic Thinking	Operations and Algebraic Thinking
2	Multiple Choice	A	1	CCSS.Math.Content.3.OA.D.9	Operations and Algebraic Thinking	Operations and Algebraic Thinking
3	Multiple Choice	B	1	CCSS.Math.Content.3.OA.A.2	Operations and Algebraic Thinking	Operations and Algebraic Thinking
6	Multiple Choice	C	1	CCSS.Math.Content.3.OA.A.3	Operations and Algebraic Thinking	Operations and Algebraic Thinking
7	Multiple Choice	D	1	CCSS.Math.Content.3.OA.D.8	Operations and Algebraic Thinking	Operations and Algebraic Thinking
8	Multiple Choice	B	1	CCSS.Math.Content.3.NF.A.3a	Number and Operations - Fractions	Number and Operations - Fractions
15	Multiple Choice	D	1	CCSS.Math.Content.3.MD.C.7c	Measurement and Data	Measurement and Data
16	Multiple Choice	A	1	CCSS.Math.Content.3.OA.B.5	Operations and Algebraic Thinking	Operations and Algebraic Thinking
21	Multiple Choice	B	1	CCSS.Math.Content.3.OA.A.4	Operations and Algebraic Thinking	Operations and Algebraic Thinking
22	Multiple Choice	D	1	CCSS.Math.Content.3.NBT.A.1	Number and Operations in Base Ten	
23	Multiple Choice	D	1	CCSS.Math.Content.3.OA.D.9	Operations and Algebraic Thinking	Operations and Algebraic Thinking
Session 2						
26	Multiple Choice	C	1	CCSS.Math.Content.3.NF.A.3b	Number and Operations - Fractions	Number and Operations - Fractions
27	Multiple Choice	B	1	CCSS.Math.Content.3.OA.A.3	Operations and Algebraic Thinking	Operations and Algebraic Thinking
28	Multiple Choice	C	1	CCSS.Math.Content.3.MD.C.5b	Measurement and Data	Measurement and Data
29	Multiple Choice	C	1	CCSS.Math.Content.3.MD.B.3	Measurement and Data	Measurement and Data
30	Multiple Choice	D	1	CCSS.Math.Content.3.OA.A.2	Operations and Algebraic Thinking	Operations and Algebraic Thinking
31	Multiple Choice	C	1	CCSS.Math.Content.3.MD.C.7d	Measurement and Data	Measurement and Data
32	Multiple Choice	A	1	CCSS.Math.Content.3.OA.B.5	Operations and Algebraic Thinking	Operations and Algebraic Thinking
33	Multiple Choice	A	1	CCSS.Math.Content.3.OA.D.8	Operations and Algebraic Thinking	Operations and Algebraic Thinking
34	Constructed Response		2	CCSS.Math.Content.3.OA.B.6	Operations and Algebraic Thinking	Operations and Algebraic Thinking
35	Constructed Response		2	CCSS.Math.Content.3.NF.A.3d	Number and Operations - Fractions	Number and Operations - Fractions
36	Constructed Response		2	CCSS.Math.Content.3.MD.A.1	Measurement and Data	Measurement and Data

37	Constructed Response		2	CCSS.Math.Content.3.NBT.A.3	Number and Operations in Base Ten	
38	Constructed Response		2	CCSS.Math.Content.3.MD.C.6	Measurement and Data	Measurement and Data
39	Constructed Response		2	CCSS.Math.Content.3.NF.A.1	Number and Operations - Fractions	Number and Operations - Fractions
40	Constructed Response		3	CCSS.Math.Content.3.OA.A.3	Operations and Algebraic Thinking	Operations and Algebraic Thinking

*This item map is intended to identify the primary analytic skills necessary to successfully answer each question. However, some questions measure proficiencies described in multiple standards, including a balanced combination of procedural and conceptual understanding.