Name: $\qquad$


# New York State Testing Program 

2017 Common Core Mathematics Test Book 1 Grade


May 2-4, 2017

## Released Questions

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## Book 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 choosing 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.

1 Theo divided a garden equally into 6 parts. He planted seeds in 5 of the parts. In what fraction of the garden did Theo plant seeds?

A $\frac{1}{6}$

B $\frac{1}{5}$

C $\frac{5}{6}$

D $\frac{6}{5}$

2 What number makes the equation below true?

$$
35 \div ?=7
$$

A 5
B 6
C 7
D 8

5 The bar graph shows the numbers and colors of cars in a parking lot.
CARS IN PARKING LOT


The total number of silver and black cars equals the total number of red, white, and blue cars. How many black cars are in the parking lot?

A 9
B 10
C 15
D 30

6 Colton and his dad bought a gallon of paint that cost $\$ 13$. They also bought 2 brushes that cost $\$ 9$ each. What was the total cost, not including tax, of the brushes and the paint they bought?

A $\$ 22$
B $\$ 24$
C \$31
D \$35

7 The table below shows four numbers rounded to the nearest hundreds place. One of the numbers is rounded incorrectly.

| Starting <br> Number | Rounded to the <br> Nearest Hundred |
| :---: | :---: |
| 1,212 | 1,200 |
| 2,396 | 2,300 |
| 3,636 | 3,600 |
| 5,573 | 5,600 |

Which number is rounded to the nearest hundreds place incorrectly?

A 1,212
B 2,396
C 3,636
D 5,573

8 Tayshawn sorts 56 marbles into equal groups with no marbles left over. Which statement could be true of the groups of marbles Tayshawn sorts?

A There are 6 groups of marbles with 8 marbles in each group.
B There are 7 groups of marbles with 7 marbles in each group.
C There are 8 groups of marbles with 7 marbles in each group.
D There are 9 groups of marbles with 6 marbles in each group.

9 Erin walked 1 mile from her house to the library. Along the way, she passed several places shown on the number line below.


Which place is $\frac{4}{8}$ mile from Erin's house?
A the fire station
B the park
C the school
D the market

13 The graph below shows the number of shirts of each color in a store.

## COLOR OF SHIRTS



How many more red shirts than the total number of blue shirts and yellow shirts are in the store?

A 15
B 30
C 40
D 45

16 Which of these is shaded to represent $\frac{2}{3}$ ?


17 Carmen saved 592 pennies. Her sister saved 128 pennies. Together, they put 250 pennies in wrappers and took them to the bank. What is the total number of pennies, rounded to the nearest hundred, Carmen and her sister have left?

A 300
B 500
C 700
D 1,000

20 Which fraction does point $P$ represent on the number line below?


A $\frac{1}{6}$
B $\frac{2}{6}$
C $\frac{1}{4}$

D $\frac{2}{4}$

21 Anya placed 16 cups in rows on a table. There are 8 cups in each row. Which equation could be used to represent this situation?

A $16 \times 8=\square$

B $8+16=\square$
C $\square \div 8=16$
D $\square \times 8=16$

22 Which fraction is equal to $\frac{2}{8}$ ?
A $\frac{8}{2}$

B $\frac{1}{2}$

C $\frac{2}{4}$

D $\frac{1}{4}$

Grade 3
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Book 1
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# New York State Testing Program 

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Book 2

Grade

$\Gamma$
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## Book 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 choosing 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.

23 Brandon used square tiles to find the area of the shaded part of the picture below.


What is the area of the shaded part of the picture?

A 3 square units
B 6 square units
C 8 square units
D 9 square units

24 Which pair of equations is true when the number 8 is placed in the blanks?
A $\begin{aligned} & 4 \times-=32 \\ & 32 \div-=4\end{aligned}$
$5 \times$ $\qquad$ $=40$
B

$$
\ldots \div 40=5
$$

C
$6 \times 48=$ $\qquad$

$$
48 \div-=6
$$

$D^{7 \times}=63$

$$
63 \div \ldots=7
$$

25 The figure below is divided into equal-sized parts.


Which fraction is represented by the shaded parts of the figure?

A $\frac{1}{3}$

B $\frac{3}{3}$

C $\frac{3}{6}$

D $\frac{6}{3}$

26 There are 12 students in Ms. Miller's class. She needs 24 juice boxes for a class party. The juice boxes come in packages of 6 juice boxes each. Which expression represents the number of packages of juice boxes Ms. Miller needs to buy for the class party?

A $24+12$
B $36 \div 6$
C $12 \times 6$
D $24 \div 6$

27 The figure below is tiled with squares.


Which expression could be used to find the area of this figure?

A $4 \times 6$
B $4+6$
C $4 \times 4 \times 6 \times 6$
D $4+4+6+6$

29 Which expression is equivalent to $5 \times 9$ ?
A $(5 \times 4) \times(5 \times 5)$
B $(5 \times 5)+(5 \times 4)$
C $(5 \times 5)+(5 \times 9)$
D $(5 \times 9) \times(5 \times 9)$

30 A coach rounded the number of runners at a track meet to the nearest 10. The rounded number of runners is 400 . Which number could be the actual number of runners at the track meet?

A 382
B 397
C 406
D 447

31 Last weekend Sanjay watched 3 television shows that were each 30 minutes long. He also watched 1 movie on television that was 90 minutes long. What is the total number of minutes Sanjay watched television last weekend?

A 100
B 120
C 150
D 180

32 A total of 30 players will play basketball at a park. There will be exactly 5 players on each team. Which statement correctly explains how to find the number of teams needed?

A Add 5 to 30 to find 35 teams.
B Divide 30 by 5 to find 6 teams.
C Multiply 30 and 5 to find 150 teams.
D Subtract 5 from 30 to find 25 teams.

35 Frankie's music class begins at 9:40 a.m. The class is 45 minutes long. Which clock shows the time that Frankie's class ends?


36 What number multiplied by 4 equals 36 ?
A 6
B 7
C 8
D 9

37 The fraction strip shown below is shaded to represent a fraction.


Which fraction strip is shaded to represent a fraction equal to the fraction strip shown above?


C


38 Which fraction comparison is not correct?
A $\frac{1}{3}<\frac{2}{3}$
B $\frac{3}{4}<\frac{1}{4}$
C $\frac{2}{3}>\frac{2}{8}$
D $\frac{5}{6}>\frac{5}{8}$

39 Kelly has a rectangular poster in her room. The poster is shown below.


What is the area, in square feet, of Kelly's poster?
A 5
B 6
C 10
D 12

40 Ms. Perez drove a total of 40 miles in 5 days. She drove the same number of miles each day. How many miles did Ms. Perez drive each day?

A 5
B 7
C 8
D 9

41 Four different recipes were used by students to bake cookies for a bake sale. The number line below shows the fraction of a cup of milk needed in each recipe.


Which recipe needs $\frac{3}{8}$ cup of milk?
A Recipe A
B Recipe B
C Recipe C
D Recipe D

43 The diagram below represents a wall Kim painted in her basement.


What is the area, in square feet, of the wall Kim painted?

A 17
B 34
C 64
D 72

44 Conor made 9 shapes with straws. Each shape had 5 straws. Conor used 15 more straws to make more shapes. What is the total number of straws Conor used to make all the shapes?

A 20
B 29
C 45
D 60

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2017 Common Core Mathematics Test
Book 2
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# New York State Testing Program 

2017 Common Core Mathematics Test Book 3

Grade

$\Gamma$
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## Book 3

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 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.

45 Write a fraction that is less than $\frac{1}{3}$ using 1 as the numerator.
Answer $\qquad$
Explain why the answer you chose is less than $\frac{1}{3}$.
Answer
$\qquad$
$\qquad$
$\qquad$

Patti puts 40 marbles in a bag. Each marble has a mass of 3 grams. What is the total mass of the bag of marbles?

Show your work.

Answer
grams

47 Ved drew the shape below by combining exactly three triangles of the same size and shape.


What fraction of the area of the whole shape is each triangle? Answer $\qquad$

Explain how you know your answer is correct.
$\qquad$
$\qquad$
$\qquad$

48 Leslie says that 5 multiplied by an even number always results in an even product. Is Leslie's statement correct?

## Explain your answer.

$\qquad$
$\qquad$
$\qquad$

49 Mrs. Ruiz bought 5 bags of balloons for a party. Each bag contained 70 balloons. Andy said Mrs. Ruiz bought a total of 75 balloons. Andy is incorrect.

What error did Andy make when calculating the total number of balloons?
$\qquad$
$\qquad$
$\qquad$

What is the total number of balloons Mrs. Ruiz bought?

Show your work.

Answer $\qquad$ balloons

50 A band has 36 members. They are arranged into 6 equal rows. How many band members are in each row?

Show your work.

Can the same 36 band members be placed into exactly 7 equal rows? Why or why not?

## Explain your answer.

$\qquad$
$\qquad$
$\qquad$

51 A gardener is drawing plans for a new yard. She creates the picture below to represent the size and shape of a new lawn.


How can the gardener find the total area of the new lawn? Describe the process she can use.
$\qquad$
$\qquad$
$\qquad$

What is the total area of the new lawn?

Answer $\qquad$ square feet

52 Ms. Amani and Mr. Blake each ordered supplies for their classrooms. The cost of the supplies is shown below.

## CLASSROOM SUPPLIES

| Supply | Cost |
| :--- | :---: |
| Pencil Case | $\$ 3$ |
| Box of Crayons | $\$ 4$ |
| Pack of Folders | $\$ 2$ |

Ms. Amani ordered 7 pencil cases and 9 packs of folders. Mr. Blake ordered 9 boxes of crayons. What is the difference in the cost of the supplies Ms. Amani ordered and the cost of the supplies Mr. Blake ordered?

Show your work.

Difference in cost \$ $\qquad$

Grade 3
2017 Common Core Mathematics Test
Book 3
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## THE STATE EDUCATION DEPARTMENT

THE UNIVERSITY OF THE STATE OF NEW YORK / ALBANY, NY 12234
2017 Mathematics Tests Map to the Standards
Released Questions on EngageNY

| rade 3 | Type | Key | Points | Standard | Cluster | Secondary <br> Standard(s) | Multiple Choice Questions <br> Percentage of Students Who Answered Correctly (P-Value) | Constructed Response Questions: |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  | Average <br> Points <br> Earned | P-Value (Average Points Earned $\div$ Total Possible Points) |
| Book 1 |  |  |  |  |  |  |  |  |  |
| 1 | Multiple Choice | C | 1 | CCSS.Math.Content.3.NF.A. 1 | Number and OperationsFractions |  | 0.76 |  |  |
| 2 | Multiple Choice | A | 1 | CCSS.Math.Content.3.OA.A. 4 | Operations and Algebraic Thinking |  | 0.90 |  |  |
| 5 | Multiple Choice | A | 1 | CCSS.Math.Content.3.MD.B. 3 | Measurement and Data |  | 0.51 |  |  |
| 6 | Multiple Choice | C | 1 | CCSS.Math.Content.3.OA.D. 8 | Operations and Algebraic Thinking |  | 0.56 |  |  |
| 7 | Multiple Choice | B | 1 | CCSS.Math.Content.3.NBT.A. 1 | Number and Operations in Base Ten |  | 0.62 |  |  |
| 8 | Multiple Choice | C | 1 | CCSS.Math.Content.3.OA.A. 2 | Operations and Algebraic Thinking |  | 0.67 |  |  |
| 9 | Multiple Choice | C | 1 | CCSS.Math.Content.3.NF.A.2b | Number and OperationsFractions |  | 0.74 |  |  |
| 13 | Multiple Choice | A | 1 | CCSS.Math.Content.3.MD.B. 3 | Measurement and Data |  | 0.66 |  |  |
| 16 | Multiple Choice | D | 1 | CCSS.Math.Content.3.NF.A. 1 | Number and OperationsFractions |  | 0.88 |  |  |
| 17 | Multiple Choice | B | 1 | CCSS.Math.Content.3.OA.D. 8 | Operations and Algebraic Thinking |  | 0.44 |  |  |
| 20 | Multiple Choice | C | 1 | CCSS.Math.Content.3.NF.A.2a | Number and OperationsFractions |  | 0.38 |  |  |
| 21 | Multiple Choice | D | 1 | CCSS.Math.Content.3.OA.B. 6 | Operations and Algebraic Thinking |  | 0.44 |  |  |
| 22 | Multiple Choice | D | 1 | CCSS.Math.Content.3.NF.A.3a | Number and OperationsFractions |  | 0.51 |  |  |
| Book 2 |  |  |  |  |  |  |  |  |  |
| 23 | Multiple Choice | D | 1 | CCSS.Math.Content.3.MD.C.5b | Measurement and Data |  | 0.94 |  |  |
| 24 | Multiple Choice | A | 1 | CCSS.Math.Content.3.OA.A. 4 | Operations and Algebraic Thinking |  | 0.73 |  |  |
| 25 | Multiple Choice | C | 1 | CCSS.Math.Content.3.NF.A. 1 | Number and OperationsFractions |  | 0.85 |  |  |

Released Questions on EngagenY

| rade 3 <br> Question | Type | Key | Points | Standard | Cluster | Secondary | Multiple Choice Questions: <br> Percentage of Students Who Answered Correctly (P-Value) | Constructed Response Questions: |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  | Average <br> Points <br> Earned | P-Value (Average Points Earned $\div$ Total Possible Points) |
| 26 | Multiple Choice | D | 1 | CCSS.Math.Content.3.OA.A. 2 | Operations and Algebraic Thinking |  | 0.63 |  |  |
| 27 | Multiple Choice | A | 1 | CCSS.Math.Content.3.MD.C.7a | Measurement and Data |  | 0.91 |  |  |
| 29 | Multiple Choice | B | 1 | CCSS.Math.Content.3.OA.B. 5 | Operations and Algebraic Thinking |  | 0.59 |  |  |
| 30 | Multiple Choice | B | 1 | CCSS.Math.Content.3.NBT.A. 1 | Number and Operations in Base Ten |  | 0.60 |  |  |
| 31 | Multiple Choice | D | 1 | CCSS.Math.Content.3.OA.D. 8 | Operations and Algebraic Thinking |  | 0.59 |  |  |
| 32 | Multiple Choice | B | 1 | CCSS.Math.Content.3.OA.A. 3 | Operations and Algebraic Thinking |  | 0.76 |  |  |
| 35 | Multiple Choice | C | 1 | CCSS.Math.Content.3.MD.A. 1 | Measurement and Data |  | 0.67 |  |  |
| 36 | Multiple Choice | D | 1 | CCSS.Math.Content.3.OA.B. 6 | Operations and Algebraic Thinking |  | 0.78 |  |  |
| 37 | Multiple Choice | D | 1 | CCSS.Math.Content.3.NF.A.3b | Number and OperationsFractions |  | 0.60 |  |  |
| 38 | Multiple Choice | B | 1 | CCSS.Math.Content.3.NF.A.3d | Number and OperationsFractions |  | 0.60 |  |  |
| 39 | Multiple Choice | B | 1 | CCSS.Math.Content.3.MD.C.7b | Measurement and Data |  | 0.64 |  |  |
| 40 | Multiple Choice | C | 1 | CCSS.Math.Content.3.OA.A. 3 | Operations and Algebraic Thinking |  | 0.74 |  |  |
| 41 | Multiple Choice | B | 1 | CCSS.Math.Content.3.NF.A.2b | Number and OperationsFractions |  | 0.76 |  |  |
| 43 | Multiple Choice | D | 1 | CCSS.Math.Content.3.MD.C. 6 | Measurement and Data |  | 0.88 |  |  |
| 44 | Multiple Choice | D | 1 | CCSS.Math.Content.3.OA.D. 8 | Operations and Algebraic Thinking |  | 0.53 |  |  |
| Book 3 |  |  |  |  |  |  |  |  |  |
| 45 | Constructed Response |  | 2 | CCSS.Math.Content.3.NF.A.3d | Number and OperationsFractions |  |  | 0.98 | 0.49 |
| 46 | Constructed <br> Response |  | 2 | CCSS.Math.Content.3.MD.A. 2 | Measurement and Data |  |  | 1.29 | 0.65 |

Released Questions on EngagenY

| $\text { G rade } 3$ | Type | Key | Points | Standard | Cluster | Secondary | Multiple Choice Questions: <br> Percentage of Students Who Answered Correctly (P-Value) | Constructed Response Questions: |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  | $\begin{gathered} \hline \text { Average } \\ \text { Points } \\ \text { Earned } \\ \hline \end{gathered}$ | P-Value (Average Points Earned $\div$ Total Possible Points) |
| 47 | Constructed Response |  | 2 | CCSS.Math.Content.3.G.A. 2 | Geometry |  |  | 1.15 | 0.58 |
| 48 | Constructed Response |  | 2 | CCSS.Math.Content.3.OA.D. 9 | Operations and Algebraic Thinking |  |  | 0.97 | 0.49 |
| 49 | Constructed Response |  | 2 | CCSS.Math.Content.3.NBT.A. 3 | Number and Operations in Base Ten |  |  | 1.20 | 0.60 |
| 50 | Constructed Response |  | 3 | CCSS.Math.Content.3.OA.A. 3 | Operations and Algebraic Thinking |  |  | 1.80 | 0.60 |
| 51 | Constructed Response |  | 3 | CCSS.Math.Content.3.MD.C.7d | Measurement and Data |  |  | 0.90 | 0.30 |
| 52 | Constructed Response |  | 3 | CCSS.Math.Content.3.OA.D. 8 | Operations and Algebraic Thinking |  |  | 1.44 | 0.48 |

 a balanced combination of procedural and conceptual understanding.

