



MISSISSIPPI
DEPARTMENT OF
EDUCATION

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Grade 5 Mathematics

Practice Test

Read each question or problem carefully. Then, answer the question or work the problem. Be sure to mark your response in this test book.

1. Which expression is equivalent to 12?

Ⓐ $2(10)$

Ⓑ $2(3 + 6)$

Ⓒ $(12 \div 2) + 2$

Ⓓ $6 + (18 \div 3)$

2. Find the sum.

$$1\frac{1}{2} + \frac{2}{3}$$

Ⓐ $1\frac{1}{6}$

Ⓑ $1\frac{3}{5}$

Ⓒ $2\frac{1}{6}$

Ⓓ $2\frac{1}{2}$

- 3.** Find the product.

$$862 \times 79$$

- Ⓐ 63,598
- Ⓑ 67,198
- Ⓒ 68,008
- Ⓓ 68,098
- 4.** Coach Smith ordered 3 pizzas to feed 5 members on the track team. Each member received the same amount of pizza. What fraction of a pizza did each member receive?

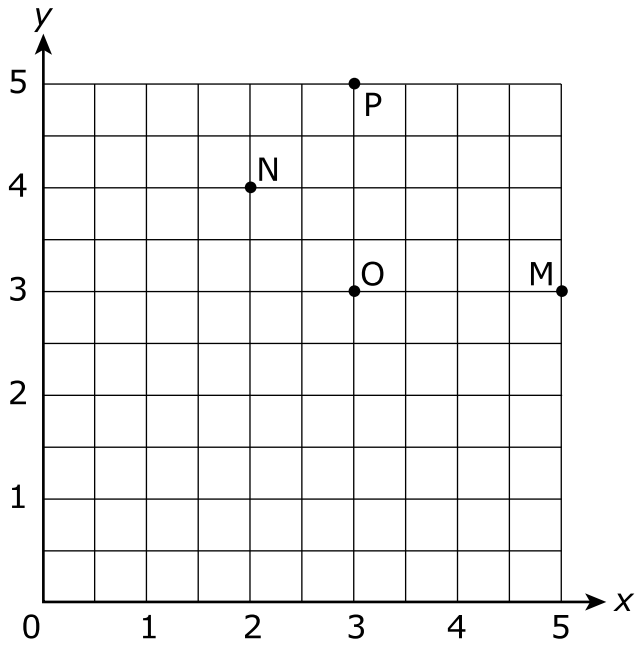
Ⓐ $\frac{3}{5}$

Ⓑ $\frac{3}{3}$

Ⓒ $\frac{5}{5}$

Ⓓ $\frac{5}{3}$

5. A museum has rooms located at each of the points shown on the coordinate plane.



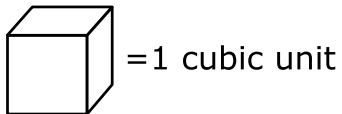
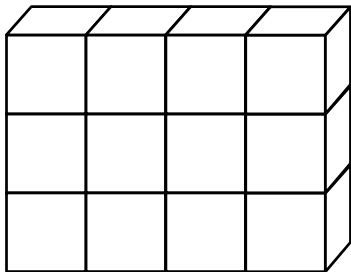
Which point represents $(3, 5)$?

- Ⓐ point M
- Ⓑ point N
- Ⓒ point O
- Ⓓ point P

6. Select a box in each row to identify each equation as true or false.

	True	False
$1,817 \div 79 = 203$	<input type="radio"/>	<input type="radio"/>
$2,976 \div 48 = 62$	<input type="radio"/>	<input type="radio"/>
$6,300 \div 38 = 165$	<input type="radio"/>	<input type="radio"/>

7. What is the volume of the figure in cubic units?



- Ⓐ 4 cubic units
- Ⓑ 8 cubic units
- Ⓒ 12 cubic units
- Ⓓ 16 cubic units

8. What is the product of 2.5×10^3 ?

Ⓐ 0.0025

Ⓑ 0.025

Ⓒ 250

Ⓓ 2,500

9. The chart shows the distance that students live from school.

Student	Distance
Sam	7.5 miles
Andy	21,210 feet
Leslie	14,080 yards
Jordan	47,520 feet

Which student lives the farthest distance from the school?

Ⓐ Sam

Ⓑ Andy

Ⓒ Leslie

Ⓓ Jordan

- 10.** Tia completed $\frac{2}{5}$ of a puzzle. Luke completed $\frac{1}{3}$ of the same puzzle.

What fraction of the puzzle was completed?

Ⓐ $\frac{1}{15}$

Ⓑ $\frac{3}{15}$

Ⓒ $\frac{4}{15}$

Ⓓ $\frac{11}{15}$

- 11.** Evaluate the expression.

$$102 - [3(2 + 7) + 8]$$

Write the answer in the box.

12. Jesse had 3 water bottles that held different amounts of water. He had a total of 1.35 liters (L) of water. Which answer represents the amount of water Jesse had?

Ⓐ $1.0\text{ L} + 0.35\text{ L} + 0.05\text{ L}$

Ⓑ $0.95\text{ L} + 0.40\text{ L} + 0.30\text{ L}$

Ⓒ $1.0\text{ L} + 0.20\text{ L} + 0.15\text{ L}$

Ⓓ $0.50\text{ L} + 0.05\text{ L} + 0.70\text{ L}$

13. What would be the **best** unit for packing a rectangular prism without any gaps or overlaps to determine the volume of the prism?

Ⓐ foot

Ⓑ inch

Ⓒ cubic inch

Ⓓ square foot

- 14.** What values of a and b make the equation $\frac{2}{3} \times 6 = a \times \frac{6}{b}$ true?
- Ⓐ $a = 2, b = 3$
 - Ⓑ $a = 2, b = 18$
 - Ⓒ $a = 3, b = 2$
 - Ⓓ $a = 3, b = 12$
- 15.** Which numerical expression represents “add 12 and 9, then multiply the sum by 5”?
- Ⓐ $(12 \times 9) + 5$
 - Ⓑ $12 + 9 \times 5$
 - Ⓒ $12 \times 9 + 5$
 - Ⓓ $(12 + 9) \times 5$

16. Which set of attributes applies to a parallelogram, rectangle, rhombus, and square?

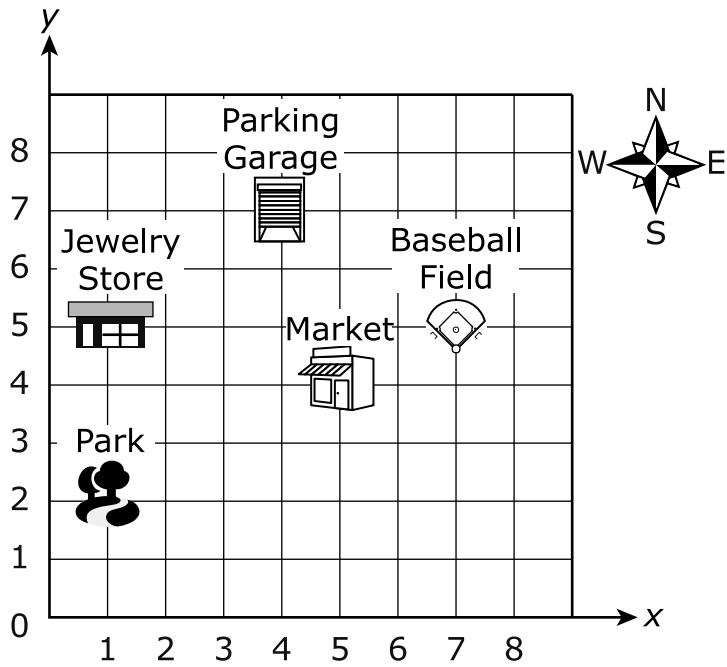
- Ⓐ exactly 2 right angles and 4 sides
- Ⓑ exactly 4 right angles and 4 sides
- Ⓒ 4 sides and exactly 1 set of parallel sides
- Ⓓ 4 sides and exactly 2 sets of parallel sides

17. Which expanded form is the difference of the expression shown?

$$142.1 - 9.39$$

- Ⓐ $(1 \times 100) + (3 \times 10) + (2 \times 1) + (8 \times \frac{1}{10}) + (9 \times \frac{1}{100})$
- Ⓑ $(1 \times 100) + (3 \times 10) + (2 \times 1) + (7 \times \frac{1}{10}) + (1 \times \frac{1}{100})$
- Ⓒ $(1 \times 100) + (4 \times 10) + (7 \times 1) + (2 \times \frac{1}{10}) + (9 \times \frac{1}{100})$
- Ⓓ $(1 \times 100) + (5 \times 10) + (1 \times 1) + (4 \times \frac{1}{10}) + (9 \times \frac{1}{100})$

18. On the map shown, Brian is located at the parking garage.



Brian leaves the parking garage and travels 2 blocks south. He then travels 3 blocks west. What is Brian's new location?

- Ⓐ Park
- Ⓑ Market
- Ⓒ Jewelry Store
- Ⓓ Baseball Field

19. Harley's recipe needs $4\frac{2}{3}$ cups of flour. If the recipe is tripled, how much flour will be needed?

Ⓐ $7\frac{2}{3}$ cups

Ⓑ $9\frac{1}{3}$ cups

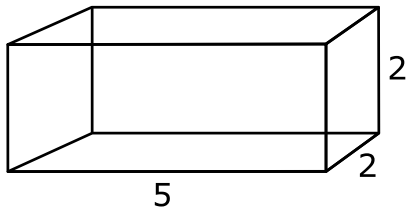
Ⓒ 12 cups

Ⓓ 14 cups

20. Select the box in each row with the symbol that makes each comparison true.

	<	>	=
$143.695 \square 143.569$	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
$713.628 \square 713.682$	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

- 21.** What is the volume of the rectangular box?



- Ⓐ 9 cubic units
- Ⓑ 12 cubic units
- Ⓒ 20 cubic units
- Ⓓ 30 cubic units
- 22.** How many $\frac{1}{8}$ -cup servings are in 4 cups of raisins?
- Ⓐ 4
- Ⓑ 12
- Ⓒ 24
- Ⓓ 32

23. Which decimals round to 0.12?

Select **two** answer choices.

Ⓐ 0.112

Ⓑ 0.114

Ⓒ 0.115

Ⓓ 0.121

Ⓔ 0.125

24. Sam had 28 index cards. Bailey gave him 8 more index cards. Sam sorted all of the index cards into 4 equal packages.

Which expression represents the number of index cards in each package?

Ⓐ $(28 + 8) \div 4$

Ⓑ $28 + 8 \div 4$

Ⓒ $(28 + 4) \div 8$

Ⓓ $28 \div 4 + 8$

25. Select a box in each row to identify if each statement is true or false.

	True	False
A square is a parallelogram.	<input type="radio"/>	<input type="radio"/>
A rectangle is a quadrilateral.	<input type="radio"/>	<input type="radio"/>
A pentagon is a rhombus.	<input type="radio"/>	<input type="radio"/>

26. Which number rounds to 12.6 when rounded to the nearest tenths place?

Ⓐ 12.06

Ⓑ 12.54

Ⓒ 12.56

Ⓓ 12.65

27. A student needs to fill a tank with 9 liters of water. How many

$\frac{1}{3}$ liters of water will it take to fill the tank?

Ⓐ 9

Ⓑ 18

Ⓒ 27

Ⓓ 54

- 28.** Sally generates an input-output table using two rules. The input rule is “add 2” and the starting number is 3. The output rule is “add 4” and the starting number is 6.

Input	Output
3	6
5	10
7	14

Which ordered pairs follow the same rules as the pattern in the table?

Select **two** answer choices.

- Ⓐ (9, 12)
- Ⓑ (11, 22)
- Ⓒ (15, 25)
- Ⓓ (17, 36)
- Ⓔ (21, 42)

29. Which number has a 5 that is $\frac{1}{10}$ the value of the 5 in 522.12?

Ⓐ 225.13

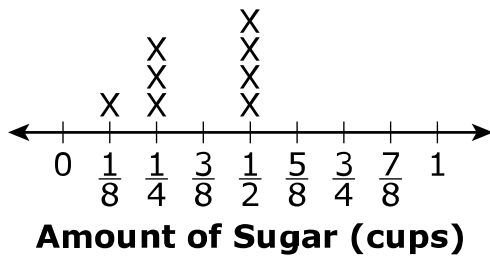
Ⓑ 351.27

Ⓒ 372.533

Ⓓ 497.154

30. The line plot shows the amount of sugar Greg used in 8 different cookie recipes.

Sugar Used in Cookie Recipes



How much sugar will Greg use to mix all 8 cookie recipes?

Ⓐ $\frac{1}{8}$ cup

Ⓑ $\frac{6}{12}$ cup

Ⓒ $2\frac{4}{12}$ cups

Ⓓ $2\frac{7}{8}$ cups

- 31.** Select the box in each row that correctly completes each comparison.

	$< \frac{3}{4}$	$> \frac{3}{4}$	$= \frac{3}{4}$
$\frac{3}{4} \times \frac{2}{3}$	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
$\frac{3}{4} \times \frac{3}{3}$	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
$\frac{3}{4} \times \frac{4}{3}$	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

- 32.** Mrs. Barrington has a total of 384 students. Each of her 12 classes have an equal number of students. How many students are in each class?

- Ⓐ 28 students
- Ⓑ 32 students
- Ⓒ 34 students
- Ⓓ 36 students

33. What is the sum of $1\frac{2}{5}$ and $2\frac{1}{3}$?

Ⓐ $3\frac{3}{8}$

Ⓑ $3\frac{3}{15}$

Ⓒ $3\frac{9}{8}$

Ⓓ $3\frac{11}{15}$

34. A box has a length of 7 centimeters, a width of 5 centimeters, and a height of 8 centimeters. What is the total volume of the box?

Ⓐ 61 cubic centimeters

Ⓑ 96 cubic centimeters

Ⓒ 250 cubic centimeters

Ⓓ 280 cubic centimeters

35. Find the product.

$$602 \times 53$$

Ⓐ 3,006

Ⓑ 4,816

Ⓒ 31,906

Ⓓ 32,336

36. Julie wants to chart the number of hours she spends each week doing chores, x , and swimming, y . Julie plans to add 2 hours to her time spent on chores each week and add 3 hours to her time spent swimming each week. The first three weeks are shown in the table.

Week	Chores (x)	Swimming (y)
1	2	3
2	4	6
3	6	9
4		
5		

The pattern is extended to week 5. What are the missing values for week 5?

Write the ordered pair in the boxes.

(,)

37. Which shapes have 4 right angles and opposite sides congruent?

Select **two** answer choices.

- Ⓐ kite
- Ⓑ square
- Ⓒ rectangle
- Ⓓ pentagon
- Ⓔ right trapezoid

38. Which statement is true about the product of $4 \times \frac{2}{3}$?

- Ⓐ The product is greater than 1 and less than 2.
- Ⓑ The product is greater than 2 and less than 3.
- Ⓒ The product is greater than 3 and less than 4.
- Ⓓ The product is greater than 4 and less than 5.

39. Which statement is true?

Ⓐ $0.78 < 0.708$

Ⓑ $0.209 < 0.21$

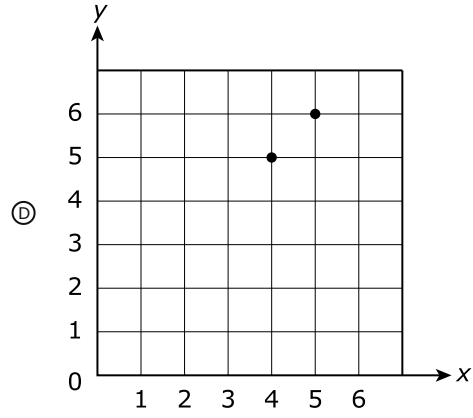
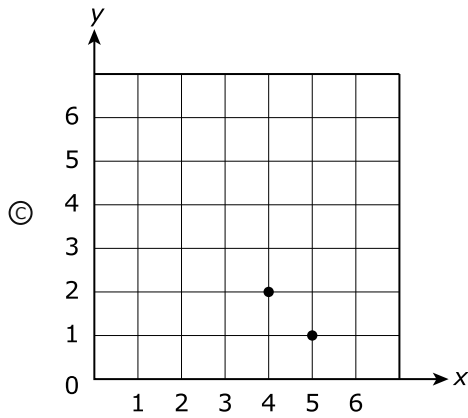
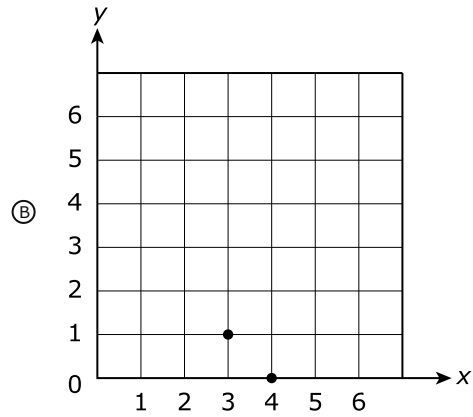
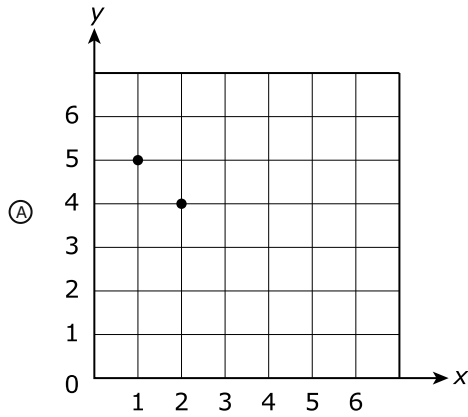
Ⓒ $0.58 < 0.558$

Ⓓ $0.234 < 0.233$

40. Jessie created a table to track the number of hours, y , she spent reading on each day, x .

Day (x)	Hours Spent Reading (y)
1	5
2	4
3	3

Which coordinate plane shows the ordered pairs for day 4 and day 5?

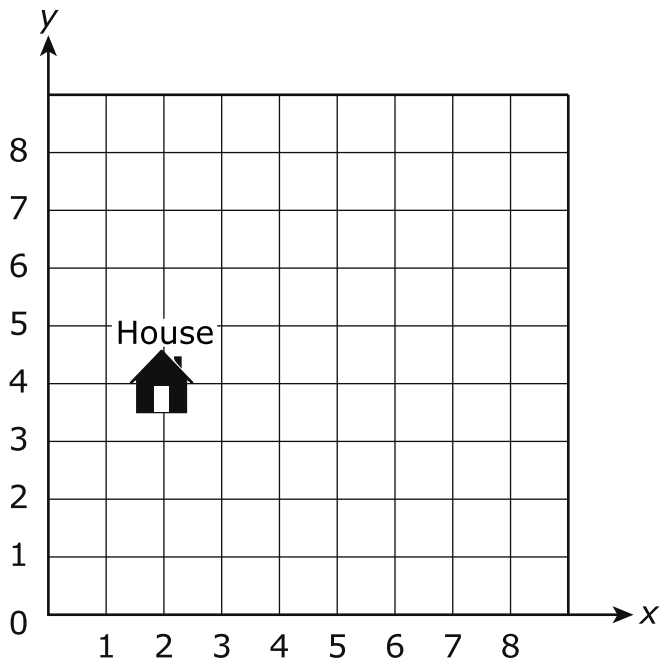


- 41.** Charlie and Landon are painting a wall. Charlie painted $\frac{3}{8}$ of the wall, and Landon painted $\frac{1}{4}$ of the wall. Charlie thinks they have $\frac{1}{2}$ of the wall left to paint.

Is Charlie correct? Why or why not?

- Ⓐ No, Charlie is incorrect because $\frac{5}{8}$ is greater than $\frac{1}{2}$.
- Ⓑ No, Charlie is incorrect because $\frac{5}{8}$ is less than $\frac{1}{2}$.
- Ⓒ Yes, Charlie is correct because $\frac{4}{12}$ is less than $\frac{1}{2}$.
- Ⓓ Yes, Charlie is correct because $\frac{4}{12}$ is greater than $\frac{1}{2}$.

42. On the map shown, a student is located at the origin.



What are the coordinates of the student's house?

- Ⓐ (1, 4)
- Ⓑ (2, 4)
- Ⓒ (4, 2)
- Ⓓ (5, 2)

- 43.** Lyle ran 5 yards. Oliver ran 4 yards and 2 feet. Tyler ran 2 yards and 4 feet less than Lyle. How many total feet did they run?

Write the answer in the box.

	feet
--	------

- 44.** Jamie, Daniel, and Taylor want apples. Jamie cuts 5 apples into equal-sized pieces. If they all eat the same amount, how many apples will each person eat?

- Ⓐ $\frac{3}{5}$ apple
- Ⓑ $\frac{5}{5}$ apple
- Ⓒ $1\frac{1}{3}$ apples
- Ⓓ $1\frac{2}{3}$ apples

45. The local middle school has 2,928 students. The principal wants the students in groups of 24 for an assembly. How many groups of students will there be?

Ⓐ 122 groups

Ⓑ 127 groups

Ⓒ 1,112 groups

Ⓓ 1,262 groups

46. Select the box in each row to identify if each statement is true or false.

	True	False
The product of $\frac{5}{6} \times 4$ is less than 4 because $\frac{5}{6}$ is greater than 1.	<input type="radio"/>	<input type="radio"/>
The product of $\frac{1}{2} \times 3$ is less than 3 because $\frac{1}{2}$ is less than 1.	<input type="radio"/>	<input type="radio"/>
The product of $1\frac{2}{3} \times 2$ is less than 2 because $1\frac{2}{3}$ is greater than 1.	<input type="radio"/>	<input type="radio"/>
The product of $2\frac{1}{8} \times 5$ is greater than 5 because $2\frac{1}{8}$ is greater than 1.	<input type="radio"/>	<input type="radio"/>

47. For every 2 adults at a community breakfast, there were 3 children. If 12 adults were present, how many children were there in all?

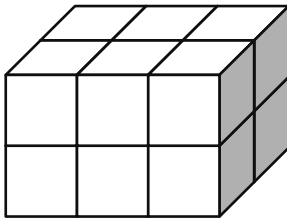
Ⓐ 8

Ⓑ 18

Ⓒ 30

Ⓓ 36

48. Jarvis made a solid figure with cubes.



What is the volume of the solid figure?

Ⓐ 6 cubic units

Ⓑ 9 cubic units

Ⓒ 12 cubic units

Ⓓ 16 cubic units

49. A card measures $4\frac{2}{3}$ inches by $2\frac{2}{5}$ inches. What is the area of the card?

Ⓐ $8\frac{4}{15}$ square inches

Ⓑ $10\frac{3}{15}$ square inches

Ⓒ $11\frac{3}{15}$ square inches

Ⓓ $14\frac{2}{15}$ square inches

STOP

1 District/School/Class Information	
District Name:	
School Name:	
Classroom/Group Name:	
Date:	

MARKING DIRECTIONS

- Use only soft black pencil (No. 2).
- Do NOT use ink pen or felt-tip marker.
- Make heavy, dark marks that completely fill the circle.
- Erase completely any marks you wish to change.
- Make NO stray marks on this answer document.

SAMPLE MARKS

RIGHT ○ ● ○ ○

WRONG ⊗ ⊗ ⊗ ⊗

2 Student Name		
Last Name	First Name	MI
1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8	1
○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	○ ○ ○ ○ ○ ○ ○ ○	○
A A A A A A A A A A A A	A A A A A A A A	A
B B B B B B B B B B B B	B B B B B B B B	B
C C C C C C C C C C C C	C C C C C C C C	C
D D D D D D D D D D D D	D D D D D D D D	D
E E E E E E E E E E E E	E E E E E E E E	E
F F F F F F F F F F F F	F F F F F F F F	F
G G G G G G G G G G G G	G G G G G G G G	G
H H H H H H H H H H H H	H H H H H H H H	H
I I I I I I I I I I I I	I I I I I I I I	I
J J J J J J J J J J J J	J J J J J J J J	J
K K K K K K K K K K K K	K K K K K K K K	K
L L L L L L L L L L L L	L L L L L L L L	L
M M M M M M M M M M M M	M M M M M M M M	M
N N N N N N N N N N N N	N N N N N N N N	N
O O O O O O O O O O O O	O O O O O O O O	O
P P P P P P P P P P P P	P P P P P P P P	P
Q Q Q Q Q Q Q Q Q Q Q Q	Q Q Q Q Q Q Q Q	Q
R R R R R R R R R R R R	R R R R R R R R	R
S S S S S S S S S S S S	S S S S S S S S	S
T T T T T T T T T T T T	T T T T T T T T	T
U U U U U U U U U U U U	U U U U U U U U	U
V V V V V V V V V V V V	V V V V V V V V	V
W W W W W W W W W W W W	W W W W W W W W	W
X X X X X X X X X X X X	X X X X X X X X	X
Y Y Y Y Y Y Y Y Y Y Y Y	Y Y Y Y Y Y Y Y	Y
Z Z Z Z Z Z Z Z Z Z Z Z	Z Z Z Z Z Z Z Z	Z

3 State ID Number									
0	0	0	0	0	0	0	0	0	0
1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9	9	9

4 Birth Date		
Month	Day	Year
○ Jan		
○ Feb		
○ Mar	○ 0 ○ 0	○ 19 ○ 0
○ Apr	○ 1 ○ 1	○ 20 ○ 1
○ May	○ 2 ○ 2	○ 1 ○ 2
○ Jun	○ 3 ○ 3	○ 3 ○ 3
○ Jul	○ 4	○ 4
○ Aug	○ 5	○ 5
○ Sep	○ 6	○ 6
○ Oct	○ 7	○ 7
○ Nov	○ 8	○ 8
○ Dec	○ 9	○ 9

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If student barcode labels are being used,
position label WITHIN the dotted lines.

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**Grade 5 Math Practice Test
Paper-Pencil Answer Key Document**

Sequence	Key	Standard	Possible Points
1	D	5.OA.1	1
2	C	5.NF.1	1
3	D	5.NBT.5	1
4	A	5.NF.3	1
5	D	5.G.2	1
6	2, 3, 6	5.NBT.6	2
7	C	5.MD.4	1
8	D	5.NBT.2	1
9	D	5.MD.1	1
10	D	5.NF.2	1
11	67	5.OA.1	1
12	C	5.NBT.7	1
13	C	5.MD.3b	1
14	A	5.NF.4a	1
15	D	5.OA.2	1
16	D	5.G.3	1
17	B	5.NBT.7	1
18	C	5.G.2	1
19	D	5.NF.6	1
20	2, 4	5.NBT.3b	1
21	C	5.MD.5b	1
22	D	5.NF.7c	1
23	C, D	5.NBT.4	1
24	A	5.OA.2	1
25	1, 3, 6	5.G.4	1
26	C	5.NBT.4	1
27	C	5.NF.7b	1
28	B, E	5.OA.3	1
29	B	5.NBT.1	1
30	D	5.MD.2	1
31	1, 6, 8	5.NF.5a	2
32	B	5.NBT.6	1
33	D	5.NF.1	1
34	D	5.MD.5b	1
35	C	5.NBT.5	1
36	10, 15	5.OA.3	1
37	B, C	5.G.4	1
38	B	5.NF.5a	1

**Grade 5 Math Practice Test
Paper-Pencil Answer Key Document**

39	B	5.NBT.3b	1
40	C	5.OA.3	1
41	A	5.NF.2	1
42	B	5.G.1	1
43	34	5.MD.1	1
44	D	5.NF.3	1
45	A	5.NBT.6	1
46	2, 3, 6, 7	5.NF.5	2
47	B	5.OA.3	1
48	C	5.MD.4	1
49	C	5.NF.4b	1