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# PART 1

### DIRECTIONS

This test has three parts. You may **NOT** use a calculator on the first part. You may use open space in this test booklet for scratch paper. No additional sheets may be used.

#### There is one type of item on this test: multiple-choice.

Multiple-choice items will require you to choose the best answer from among four answer choices. For these items, use only a No. 2 pencil to mark your answer in your **Answer Document**. If you erase an answer, be sure to erase it completely. If you skip an item, be sure to mark the answer to the next item in the correct place in your **Answer Document**.

#### Sample Multiple-Choice Item:

Marty wants to put 75 CDs into cases. Each case holds exactly 8 CDs. What is the *least* number of cases that Marty will need to hold all his CDs?

- **A** 8
- **B** 9
- **C** 10
- **D** 11

For this sample item, the correct answer is C. Circle C is filled in on the sample item in your Answer Document.

You will have at least 30 minutes to finish Part 1 of this test. You will be given additional time if necessary.

**1** Divide  $7\frac{2}{9} \div 3\frac{1}{3}$ 

- A  $2\frac{1}{6}$
- **B**  $4\frac{1}{6}$
- c  $21\frac{2}{27}$
- **D**  $21\frac{3}{12}$
- $\label{eq:constraint} \textbf{2} \quad \text{ x and } \div \text{ any two fractions, including mixed numbers}$ 
  - A correct
  - **B** added numerators, added denominators
  - C cross multiplied, put in numerator/denominator
  - D incorrect numerator, correct denominator
- **3** Divide  $\frac{3}{5} \div \frac{7}{8}$

Α	<u>21</u> 40
в	<u>24</u> 35
с	1 <u>11</u> 24
D	1 <u>19</u> 21

- **4** Compute with positive rational numbers
  - **A** added one given number to two with decimals moved
  - **B** added two given numbers to one with decimal moved
  - **C** correct
  - **D** changed decimals to wholes, then added
- **5** Divide  $6 \div \frac{1}{4}$ 
  - A  $\frac{2}{3}$
  - **B**  $1\frac{1}{2}$
  - c  $6\frac{1}{4}$
  - **D** 24
- **6** Compute with positive rational numbers
  - A incorrect fraction conversion
  - **B** correct
  - **C** converted fractions correctly, subtracted wrong direction
  - **D** subtracted wholes, added numerators, denominators

## PART 2

### DIRECTIONS

You will now begin Part 2 of this test. You may use a calculator on this part of the test, and you may use open space in this test booklet for scratch paper. No additional sheets may be used.

If you finish early, you may check your work for Part 2 ONLY.

Do NOT look at items in other parts of this test.

You will have at least 50 minutes to finish Part 2 of this test.

- 7 Which of the following has the same value as  $\frac{4}{5} \times \frac{3}{2}$ ?
  - A  $\frac{4}{5} \div \frac{3}{2}$
  - $\mathbf{B} \quad \frac{5}{4} \div \frac{3}{2}$
  - $c \qquad \frac{4}{5} \div \frac{2}{3}$
  - **D**  $\frac{5}{4} \div \frac{2}{3}$

8 Understand ÷ of fractions as the inverse of x

- A multiplied, instead of divided
- **B** subtracted/added numerators, denominators
- **C** correct
- D reciprocal
- 9 Which of the following has the same value as  $\frac{4}{9} \div \frac{1}{4}$ ?
  - $\mathbf{A} \qquad \frac{4}{9} \times \frac{4}{1}$
  - $\mathbf{B} \qquad \frac{4}{9} \times \frac{1}{4}$
  - $\mathbf{c} = \frac{9}{4} \times \frac{4}{1}$
  - $\mathbf{D} \qquad \frac{9}{4} \times \frac{1}{4}$

- **10** Write a statement to represent dividing fractions
  - A subtracted
  - B multiplied
  - **C** correct
  - D added
- 11 Melissa had  $\frac{1}{2}$  of a whole cake remaining. She cut the remaining cake into 3 pieces that were all the same size. Which of the following represents this situation?

**A**  $\frac{1}{2} + \frac{1}{3}$  **B**  $\frac{1}{2} \cdot 3$  **C**  $\frac{1}{2} - \frac{1}{3}$ **D**  $\frac{1}{2} \div 3$ 

- **12** Write a statement to represent dividing fractions
  - A multiplied
  - B divided divisor by dividend
  - **C** correct
  - **D** divisor divided by reciprocal of dividend

- 13 Which of the following is equivalent to  $\frac{4}{12}$ ?
  - A  $\frac{1}{4}$
  - **B**  $\frac{8}{24}$
  - c  $\frac{8}{16}$
  - **D**  $\frac{2}{3}$
- 14 Find equivalent ratios by scaling up or down
  - A scaled denominator correctly, but not numerator
  - **B** correct
  - C scaled numerator incorrectly, did not reduce denominator
  - D scaled numerator correctly, did not reduce denominator
- 15 Which of the following is equivalent to the ratio below?

15:10

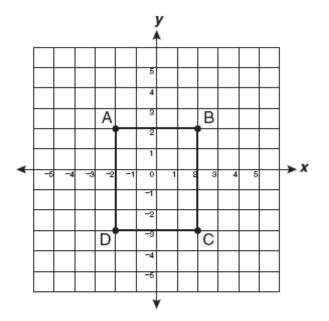
- A 10:15
- B 10:5
- **c** 3:2
- D 2:3

- **16** Solve applied problems involving rates
  - A divided rate into improper given number
  - **B** added rate to time
  - **C** correct
  - **D** multiplied rate by rounded up amount of time
- 17 If Sam rode his bike at an average rate of 15 miles per hour, what is the total distance he would travel in  $2\frac{1}{2}$  hours?
  - A 6 miles
  - B 17 miles

c  $30\frac{1}{2}$  miles

- **D**  $37\frac{1}{2}$  miles
- **18** Solve applied problems involving rates
  - A rounded time up then multiplied by rate
  - B correct
  - **C** incorrect time and rate
  - **D** multiplied whole part of time by rate, + fractional part

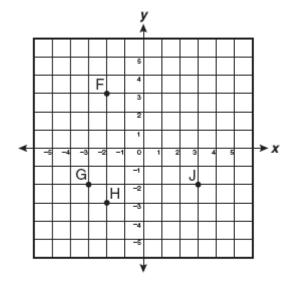
19 Rectangle ABCD is graphed on the coordinate plane below.



Which ordered pair best represents the location of point D?

- A (-2, -3)
- B (-3, 2)
- C (2, −3)
- D (3, -2)
- **20** Plot ordered pairs of integers
  - **A** (-y, x)
  - **B** (-x, -y)
  - **c** correct
  - **D** (y, x)

21 Which point appears to be located at (-2, 3)?



- A F
- B G
- с н
- D J
- 22 Use letters, with units, to represent quantities
  - **A** correct
  - **B** subtracted instead of added
  - **c** multiplied
  - D divided
- 23 Juan found he weighs x pounds more now than he did last month. If Juan weighed 105 pounds last month, which of the following represents the amount he weighs now?
  - A 105x pounds
  - B 105 ÷ x pounds
  - C 105 x pounds
  - D 105 + x pounds

- 24 Use letters, with units, to represent quantities
  - A added instead of multiplied
  - B subtracted
  - **C** correct
  - D divided
- 25 In a classroom of 35 students, 23 are girls. Which of the following can be used to determine *b*, the number of students in the classroom that are boys?

$$\mathbf{A} \qquad \frac{23}{b} = 35$$

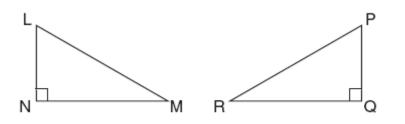
- **B** 23*b* = 35
- **C** 23 b = 35
- **D** 23 + b = 35
- 26 Represent words using algebraic equations
  - A correct
  - **B** switched total and addend in equation
  - **C** added total to addend, difference equation
  - **D** impossible difference equation

27 Which of the following represents the statement below?

the quotient of a number, y, and 7

A y + 7

- B y 7
- **C** 7*y*
- $D = \frac{y}{7}$
- **28** Understand congruence for polygons
  - A correct
  - **B** angle does not correspond
  - **C** angle does not correspond
  - **D** angle does not correspond
- 29 Triangle LNM is congruent to triangle PQR, as shown below.



What side of triangle PQR corresponds to  $\overline{\text{LN}}$  in triangle LNM?

- A PQ
- B QR
- C RP
- D NM

- **30** Understand congruence for polygons
  - **A** side lengths do not correspond, may not be congruent
  - **B** angles do not correspond, may not be congruent
  - **C** correct
  - **D** angles do not correspond, may not be congruent
- 31 Elizabeth is going to roll a fair six-sided number cube on which each face is labeled with a different numeral. If the numerals are 1 through 6, what is the probability she will roll a 3 on the first roll?
  - **A**  $\frac{1}{2}$  **B**  $\frac{1}{3}$  **C**  $\frac{1}{5}$ **D**  $\frac{1}{6}$
- 32 Express probabilities as fractions, decimals or %s
  - A correct
  - **B** probability of other event
  - **C** probability of other event
  - **D** probability of any event

- 33 If a letter in the word MICHIGAN is randomly selected, what is the probability that the letter selected will be an "I" or an "A"?
  - **A**  $\frac{2}{8}$  **B**  $\frac{3}{8}$  **C**  $\frac{3}{5}$ **D**  $\frac{5}{8}$

# PART 3

### DIRECTIONS

You will now begin Part 3 of this test. You may use a calculator on this part of the test, and you may use open space in this test booklet for scratch paper. No additional sheets may be used.

If you finish early, you may check your work for Part 3 ONLY.

Do NOT look at items in other parts of this test.

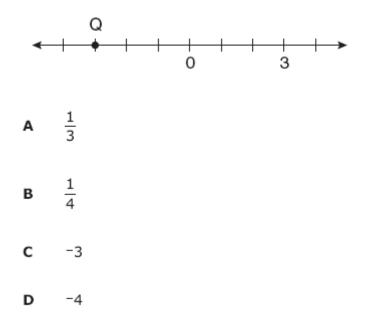
You will have at least 50 minutes to finish Part 3 of this test.

- **34** Solve contextual problems involving percentages
  - A correct
  - **B** % as whole number divided by total
  - **C** divided by % as whole number
  - **D** place value error
- 35 The total cost, including tax, for David's lunch was \$6.35. He left a tip, which was 20% of the total cost of his lunch. What was the amount of the tip David left?
  - A \$1.17
  - B \$1.20
  - C \$1.23
  - D \$1.27
- **36** Solve contextual problems involving percentages
  - **A** total divided by %
  - **B** multiplied by incorrect %
  - **C** added total to % as whole number
  - D correct

- 37 Gwen is going to make two batches of cookies. She needs  $\frac{2}{3}$  cup of sugar for each batch. Which is *closest* to the total number of cups of sugar that Gwen will need?
  - A  $\frac{1}{2}$
  - **B**  $1\frac{1}{2}$
  - **c**  $2\frac{1}{2}$
  - **D** 3
- 38 Estimate calculations involving rational numbers
  - A one of addends
  - B underestimated
  - **c** correct
  - D overestimated
- 39 A certain car can travel 25 miles on  $2\frac{1}{4}$  gallons of gasoline. At this rate, which of the following is *closest* to the total number of miles the car can travel on  $12\frac{1}{2}$  gallons of gasoline?
  - **A** 50
  - **B** 150
  - **C** 250
  - **D** 300

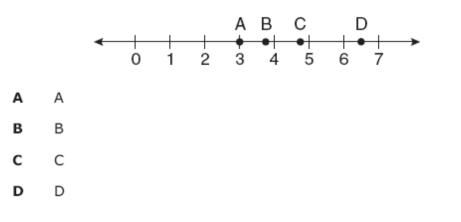
- **40** Solve applied problems with appropriate decimals
  - A correct
  - **B** transposed two numbers after decimal
  - **C** subtracted instead of divided
  - D added
- 41 In the city of Marquette, it rained 4.28 inches in September and 8.9 inches in October. What was the total amount of rain for September and October in Marquette?
  - A 5.17 inches
  - B 12.00 inches
  - C 13.18 inches
  - D 38.09 inches
- **42** Solve applied problems with appropriate decimals
  - A correct
  - **B** divided and used one incorrect number
  - **C** added instead of subtracted
  - **D** incorrect minuend





- 44 Locate negative rational numbers on number line
  - A face value error
  - B place value error
  - **C** correct
  - **D** face value error





46 Relate simple linear equations to contexts; solve

- **A** added instead of subtracted
- B correct
- **C** difference minus subtrahend equals minuend
- **D** subtrahend minus difference equals minuend
- 47 What value of p makes the following true?

-4p = 16

-	-20	
-	-12	
	-4	
	4	

Α

в

С

D

- 48 Relate simple linear equations to contexts; solve
  - A multiplied instead of subtracted
  - B added
  - C divided
  - D correct

**49** Which is equivalent to x + 11 = 4?

Α	x + 11 - 11 = 4 - 11
в	x - 11 = 4 - 11
С	x + 11 - 4 = 4 + 4
D	x + 11 = 4 + 11

50 Add, subtract numbers on both sides of equations

- A added instead of subtracted
- B correct
- c multiplied
- **D** divided

51 Which number can be put in the blank below to make the statement true?

b – 7 =	18
b - 7 + =	18 + 7
b =	25

- **A** <sup>-</sup>18
- **B** -7
- **C** 7
- **D** 18
- **52** Multiply, divide numbers on both sides of equations
  - **A** subtracted constant from only one side of equation
  - B correct
  - **C** added constant to only one side of equation
  - **D** divided each side of equation by different numbers

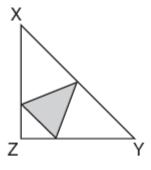
53 Which single step will correctly solve for p in the statement below?

4p = 12

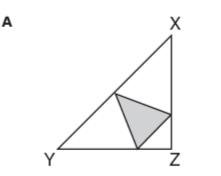
- A Add 4 to both sides.
- B Subtract 4 from both sides.
- C Multiply both sides by 4.
- D Divide both sides by 4.
- 54 Multiply, divide numbers on both sides of equations
  - A correct
  - **B** added instead of divided
  - C subtracted
  - D multiplied
- 55 Which of the following is equivalent to 2 meters?
  - A 2,000 mm
  - B 200 mm
  - C 20 mm
  - D 0.2 mm
- **56** Convert measurements within a single system
  - **A** multiplied instead of divided
  - B added
  - **C** correct
  - **D** incorrect conversion

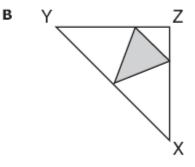
- 57 What is the total number of square inches in 5 square feet?
  - **A** 25
  - **B** 60
  - **C** 300
  - **D** 720
- 58 Understand rigid motions & relate to congruence
  - A translation does not create change noted
  - **B** correct
  - **C** translation does not create change noted
  - **D** translation does not create change noted

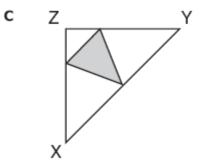
59 Which of the following appears to show the reflection of the figure below over  $\overline{XZ}$  ?

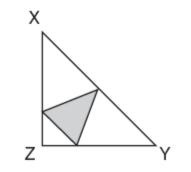


D







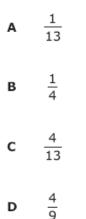


- 60 Understand rigid motions & relate to congruence
  - A figure not result of given rotation
  - **B** figure not result of given rotation
  - **C** figure not result of given rotation
  - D correct
- 61 Which of the following is an algebraic equation?
  - A m ÷ 3
    B m = 3
    C m + 3
  - **D** m•3
- **62** Relationships can be shown by graphs and tables
  - **A** incorrect intercept and slope
  - **B** slope of line is negative reciprocal
  - **C** correct
  - **D** slope of line is reciprocal

63 Anna has a bag of gumballs all the same shape and size. In the bag there are the following:

- 2 green gumballs
- 3 yellow gumballs
- 4 orange gumballs
- 4 brown gumballs

If Anna selects only 1 gumball from the bag without looking, what is the probability that it will be orange?



**64** Use simple compositions of rigid transformations

- A not composition of transformations noted
- B correct
- **C** not composition of transformations noted
- **D** not composition of transformations noted

65 What is 45% of 800?

- **A** 36
- **B** 177
- C 360
- **D** 450

- **66** Order rational numbers and place on the number line
  - A correct
  - B incorrect order
  - **C** reversed order
  - D incorrect order
- **67** Which of the following is equivalent to  $\frac{3}{8}$ ?
  - A 0.375
  - **B** 0.380
  - C 2.667
  - **D** 3.800
- 68 Understand that rational numbers are quotients of integers
  - A difference
  - **B** correct
  - **c** sum
  - D product

69 Which of the following is an integer?

**A** 0

 $B = \frac{1}{3}$ 

- c 2<sup>5</sup>/<sub>6</sub>
- **D** 0.25
- 70 Know the absolute value of a number
  - **A** negative integer
  - **B** negative reciprocal
  - **C** positive reciprocal
  - D correct
- 71 Which of the following represents the phrase below?

ten less than two times x

- **A** 2*x* 10
- **B** 10 2x
- **C** 2(x 10)
- **D** 2(10 x)

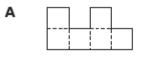
- 72 Simplify linear expression & evaluate using values
  - **A** omitted one x addend, incorrect addition with y addend
  - B correct
  - C added like coefficients, multiplied, & multiplied variables
  - D added all coefficients, multiplied variables
- 73 What value of x makes the statement below true?
  - 2x + 3 = 33

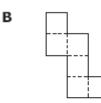
Α	15
в	18
С	28
D	30

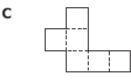
- 74 Solve problems involving linear functions
  - A correct
  - **B** added slope to variable instead of multiplied
  - **C** used first value in table, not slope
  - **D** added incorrect slope to variable
- **75** Sam has a square game board that has a perimeter of 64 inches. What is the length of one side of the game board?
  - A 8 inches
  - B 16 inches
  - C 32 inches
  - D 256 inches

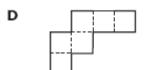
- 76 Understand and apply properties of lines and angles
  - **A** given angle minus 90 degrees
  - **B** used incorrect angle measure for straight line
  - **C** correct
  - **D** incorrect subtraction

### 77 Which is a net of a cube?









- **78** Compute volume & surface area of rectangular prisms
  - **A** added dimensions instead of multiplied
  - **B** multiplied two dimensions then added to third dimension
  - **C** added two dimensions then multiplied by third dimension
  - **D** correct

79 Which is equivalent to -8(-4)?

- **A** 32
- **B** 2
- **c** -12
- **D** -32
- 80 Understand fractions as a quotient of two integers
  - A correct
  - **B** divided denominator by numerator
  - **C** divided numerator by additive inverse of denominator
  - **D** divided additive inverse of denominator by numerator
- 81 Which of the following represents  $3.2 \times 10^3$  in standard form?
  - A 320
  - **B** 3,200
  - C 32,000
  - **D** 320,000

82 Solve for the unknown in equations

- **A** dividend times dividend
- **B** correct
- **C** quotient not divisor
- **D** reciprocal
- 83 Which is equivalent to -8 (-4)?
  - **A** -12
  - **B** -4
  - **c** 4
  - **D** 12

Scoring	Key:	Part	1
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Item No.	Correct Answer	GLCE	Туре	Description
1	А	N.FL.06.04	Core-NC	x and ÷ any two fractions, including mixed numbers
2	А	N.FL.06.04	Core-NC	x and ÷ any two fractions, including mixed numbers
3	В	N.FL.06.04	Core-NC	x and ÷ any two fractions, including mixed numbers
4	С	N.FL.06.10	Core-NC	Compute with positive rational numbers
5	D	N.FL.06.10	Core-NC	Compute with positive rational numbers
6	В	N.FL.06.10	Core-NC	Compute with positive rational numbers

NC=Non Calculator

### Scoring Key: Part 2

Item No.	Correct Answer	GLCE	Туре	Description
7	С	N.MR.06.01	Core	Understand ÷ of fractions as the inverse of x
8	С	N.MR.06.01	Core	Understand ÷ of fractions as the inverse of x
9	А	N.MR.06.01	Core	Understand $\div$ of fractions as the inverse of x
10	С	N.FL.06.02	Core	Write a statement to represent dividing fractions
11	D	N.FL.06.02	Core	Write a statement to represent dividing fractions
12	С	N.FL.06.02	Core	Write a statement to represent dividing fractions
13	В	N.ME.06.11	Core	Find equivalent ratios by scaling up or down
14	В	N.ME.06.11	Core	Find equivalent ratios by scaling up or down
15	С	N.ME.06.11	Core	Find equivalent ratios by scaling up or down
16	С	A.PA.06.01	Core	Solve applied problems involving rates
17	D	A.PA.06.01	Core	Solve applied problems involving rates
18	В	A.PA.06.01	Core	Solve applied problems involving rates
19	А	A.RP.06.02	Core	Plot ordered pairs of integers
20	С	A.RP.06.02	Core	Plot ordered pairs of integers

Item	Correct			
No.	Answer	GLCE	Туре	Description
21	А	A.RP.06.02	Core	Plot ordered pairs of integers
22	А	A.FO.06.03	Core	Use letters, with units, to represent quantities
23	D	A.FO.06.03	Core	Use letters, with units, to represent quantities
24	С	A.FO.06.03	Core	Use letters, with units, to represent quantities
25	D	A.FO.06.06	Core	Represent words using algebraic equations
26	А	A.FO.06.06	Core	Represent words using algebraic equations
27	D	A.FO.06.06	Core	Represent words using algebraic equations
28	А	G.GS.06.02	Core	Understand congruence for polygons
29	А	G.GS.06.02	Core	Understand congruence for polygons
30	С	G.GS.06.02	Core	Understand congruence for polygons
31	D	D.PR.06.01	Core	Express probabilities as fractions, decimals or %s
32	А	D.PR.06.01	Core	Express probabilities as fractions, decimals or %s
33	В	D.PR.06.01	Core	Express probabilities as fractions, decimals or %s

## Scoring Key: Part 2 (continued)

Scoring Key: Part 3

Item No.	Correct Answer	GLCE	Туре	Description
34	А	N.MR.06.13	Core	Solve contextual problems involving percentages
35	D	N.MR.06.13	Core	Solve contextual problems involving percentages
36	D	N.MR.06.13	Core	Solve contextual problems involving percentages
37	В	N.FL.06.14	Core	Estimate calculations involving rational numbers
38	С	N.FL.06.14	Core	Estimate calculations involving rational numbers
39	В	N.FL.06.14	Core	Estimate calculations involving rational numbers
40	А	N.FL.06.15	Core	Solve applied problems with appropriate decimals
41	С	N.FL.06.15	Core	Solve applied problems with appropriate decimals
42	А	N.FL.06.15	Core	Solve applied problems with appropriate decimals
43	С	N.ME.06.17	Core	Locate negative rational numbers on number line
44	С	N.ME.06.17	Core	Locate negative rational numbers on number line
45	В	N.ME.06.17	Core	Locate negative rational numbers on number line
46	В	A.FO.06.11	Core	Relate simple linear equations to contexts; solve
47	С	A.FO.06.11	Core	Relate simple linear equations to contexts; solve
48	D	A.FO.06.11	Core	Relate simple linear equations to contexts; solve
49	А	A.FO.06.12	Core	Add, subtract numbers on both sides of equations
50	В	A.FO.06.12	Core	Add, subtract numbers on both sides of equations
51	С	A.FO.06.12	Core	Add, subtract numbers on both sides of equations
52	В	A.FO.06.13	Core	Multiply, divide numbers on both sides of equations

Scoring Ke	ey: Part 3	(continued)
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Item No.	Correct	GLCE	Type	Description
INO.	Answer	GLUE	Туре	Description
53	D	A.FO.06.13	Core	Multiply, divide numbers on both sides of equations
54	А	A.FO.06.13	Core	Multiply, divide numbers on both sides of equations
55	А	M.UN.06.01	Core	Convert measures within a single system
56	С	M.UN.06.01	Core	Convert measures within a single system
57	D	M.UN.06.01	Core	Convert measures within a single system
58	В	G.TR.06.03	Core	Understand rigid motions & relate to congruence
59	А	G.TR.06.03	Core	Understand rigid motions & relate to congruence
60	D	G.TR.06.03	Core	Understand rigid motions & relate to congruence
61	В	A.FO.06.04	Extended	Distinguish between algebraic expression/equation
62	С	A.RP.06.08	Extended	Relationships can be shown by graphs and tables
63	С	D.PR.06.02	Extended	Compute probabilities of events from experiments
64	В	G.TR.06.04	Extended	Use simple compositions of rigid transformations
65	С	N.FL.06.12	Extended-NC	Calculate part of a number given the % and number
66	А	N.ME.06.05	Extended	Order rational numbers and place on the number line
67	А	N.ME.06.06	Extended	Show rationals as fractions or terminating decimals
68	В	N.ME.06.18	Extended	Understand that rationals are quotients of integers
69	А	N.ME.06.19	Extended	Understand that 0 is neither negative nor positive

Item	Correct			
No.	Answer	GLCE	Туре	Description
70	D	N.ME.06.20	Extended	Know the absolute value of a number
71	А	A.FO.06.05	Future	Use conventions for writing algebraic expressions
72	В	A.FO.06.07	Future	Simplify linear expression & evaluate using values
73	А	A.FO.06.14	Future	Solve equations of the form $ax + b = c$
74	А	A.PA.06.09	Future	Solve problems involving linear functions
75	В	A.RP.06.10	Future	Show relationships using equations, tables, graphs
76	С	G.GS.06.01	Future	Understand and apply properties of lines and angles
77	В	M.PS.06.02	Future	Draw patterns for rectangular prisms
78	D	M.TE.06.03	Future	Compute volume & surface area of rectangular prisms
79	А	N.FL.06.09	Future- NC	Compute with integers, use # line & chip models
80	А	N.ME.06.07	Future	Understand fractions as a quotient of two integers
81	В	N.ME.06.16	Future	Use integer exponents & scientific notation
82	В	N.MR.06.03	Future	Solve for the unknown in equations
83	В	N.MR.06.08	Future	Understand - and ÷ as inverse of + and x