

# RELEASED ITEMS 

## MATHEMATICS GRADE 7

## Fall 2007

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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 $\mathbf{C}$. Circle $\mathbf{C}$ 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 $\quad 4 \frac{1}{6}$

C $21 \frac{2}{27}$

D $\quad 21 \frac{3}{12}$
$2 \times$ and $\div$ 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 $\quad \frac{3}{5} \div \frac{7}{8}$

A $\frac{21}{40}$

B $\quad \frac{24}{35}$

C $\quad 1 \frac{11}{24}$

D $\quad 1 \frac{19}{21}$

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 $\quad 1 \frac{1}{2}$

C $\quad 6 \frac{1}{4}$

D $\quad 24$

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 $\frac{4}{5} \div \frac{3}{2}$

B $\frac{5}{4} \div \frac{3}{2}$

C $\frac{4}{5} \div \frac{2}{3}$

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 $\frac{4}{9} \div \frac{1}{4}$ ?

A $\quad \frac{4}{9} \times \frac{4}{1}$

B $\quad \frac{4}{9} \times \frac{1}{4}$

C $\quad \frac{9}{4} \times \frac{4}{1}$

D $\frac{9}{4} \times \frac{1}{4}$

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 $\quad \frac{1}{2} \cdot 3$

C $\quad \frac{1}{2}-\frac{1}{3}$

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 $\quad 3: 2$
D $\quad 2: 3$

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

D $\quad 37 \frac{1}{2}$ 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 $A B C D$ 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 $\quad(-x,-y)$
C correct
D $(\mathrm{y}, \mathrm{x})$

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


A $F$
B G
C H
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 $105 x$ pounds
B $\quad 105 \div x$ 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?

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

B $\quad 23 b=35$

C $\quad 23-b=35$

D $\quad 23+b=35$

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 $\quad y+7$

B $\quad y-7$

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 $\overline{\mathrm{LN}}$ in triangle LNM ?
A $\overline{\mathrm{PQ}}$
B $\overline{\mathrm{QR}}$
C $\overline{\mathrm{RP}}$
D $\overline{\mathrm{NM}}$

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 $\quad \$ 1.17$
B $\quad \$ 1.20$
C $\quad \$ 1.23$
D $\quad \$ 1.27$

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 $\quad 5.17$ inches
B $\quad 12.00$ inches
C $\quad 13.18$ inches
D $\quad 38.09$ 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

43 Which best represents the location of point Q ?


A $\frac{1}{3}$

B $\frac{1}{4}$

C -3

D $\quad-4$

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

45 Which point appears to be located at $\frac{15}{4}$ on the number line below?


A A
B B
C C
D D

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?

$$
-4 p=16
$$

A -20
B -12
C $\quad-4$
D $\quad 4$

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

49 Which is equivalent to $x+11=4$ ?
A $\quad x+11-11=4-11$
B $\quad x-11=4-11$
C $\quad x+11-4=4+4$
D $\quad x+11=4+11$

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?

$$
\begin{aligned}
b-7 & =18 \\
b-7+\ldots & =18+7 \\
b & =25
\end{aligned}
$$

A $\quad-18$
B $\quad-7$
C 7
D $\quad 18$

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?

$$
4 p=12
$$

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 $2,000 \mathrm{~mm}$
B $\quad 200 \mathrm{~mm}$
C $\quad 20 \mathrm{~mm}$
D $\quad 0.2 \mathrm{~mm}$

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 $\overline{\mathrm{XZ}}$ ?

A

B

C

D X


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 $\quad m \div 3$
B $\quad m=3$
C $\quad m+3$
D $m \cdot 3$

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?

A $\frac{1}{13}$

B $\frac{1}{4}$

C $\frac{4}{13}$

D $\frac{4}{9}$

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 $\quad 3.800$

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 $2 \frac{5}{6}$

D $\quad 0.25$

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 $\quad 10-2 x$
C $\quad 2(x-10)$
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?

$$
2 x+3=33
$$

A 15
B 18
C 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 $\quad 32$ 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?

A


B


C


D


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 $\quad-4$
C 4
D $\quad 12$

## Scoring Key: Part 1

| Item <br> No. | Correct <br> Answer | GLCE | Type | Description |
| :---: | :---: | :---: | :---: | :--- |
| 1 | A | N.FL.06.04 | Core-NC | x and $\div$ any two fractions, including mixed <br> numbers |
| 2 | A | N.FL.06.04 | Core-NC | x and $\div$ any two fractions, including mixed <br> numbers |
| 3 | B | N.FL.06.04 | Core-NC | x and $\div$ any two fractions, including mixed <br> numbers |
| 4 | C | 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 | B | N.FL.06.10 | Core-NC | Compute with positive rational numbers |

$\mathrm{NC}=$ Non Calculator

## Scoring Key: Part 2

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

## Scoring Key: Part 2 (continued)

| Item <br> No. | Correct <br> Answer | GLCE | Type | Description |
| :---: | :---: | :--- | :--- | :--- |
| 21 | A | A.RP.06.02 | Core | Plot ordered pairs of integers |
| 22 | A | 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 | C | 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 | A | A.FO.06.06 | Core | Represent words using algebraic equations |
| 27 | D | A.FO.06.06 | Core | Represent words using algebraic equations |
| 28 | A | G.GS.06.02 | Core | Understand congruence for polygons |
| 29 | A | G.GS.06.02 | Core | Understand congruence for polygons |
| 30 | C | G.GS.06.02 | Core | Understand congruence for polygons |
| 31 | D | D.PR.06.01 | Core | Express probabilities as fractions, decimals or <br> \%s |
| 32 | A | D.PR.06.01 | Core | Express probabilities as fractions, decimals or <br> \%s |
| 33 | B | D.PR.06.01 | Core | Express probabilities as fractions, decimals or <br> \%s |

## Scoring Key: Part 3

| $\begin{array}{\|c} \hline \text { I tem } \\ \text { No. } \\ \hline \end{array}$ | Correct Answer | GLCE | Type | Description |
| :---: | :---: | :---: | :---: | :---: |
| 34 | A | 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 | B | N.FL.06.14 | Core | Estimate calculations involving rational numbers |
| 38 | C | N.FL.06.14 | Core | Estimate calculations involving rational numbers |
| 39 | B | N.FL.06.14 | Core | Estimate calculations involving rational numbers |
| 40 | A | N.FL.06.15 | Core | Solve applied problems with appropriate decimals |
| 41 | C | N.FL.06.15 | Core | Solve applied problems with appropriate decimals |
| 42 | A | N.FL. 06.15 | Core | Solve applied problems with appropriate decimals |
| 43 | C | N.ME.06.17 | Core | Locate negative rational numbers on number line |
| 44 | C | N.ME.06.17 | Core | Locate negative rational numbers on number line |
| 45 | B | N.ME.06.17 | Core | Locate negative rational numbers on number line |
| 46 | B | A.FO.06.11 | Core | Relate simple linear equations to contexts; solve |
| 47 | C | 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 | A | A.FO.06.12 | Core | Add, subtract numbers on both sides of equations |
| 50 | B | A.FO.06.12 | Core | Add, subtract numbers on both sides of equations |
| 51 | C | A.FO.06.12 | Core | Add, subtract numbers on both sides of equations |
| 52 | B | A.FO.06.13 | Core | Multiply, divide numbers on both sides of equations |

## Scoring Key: Part 3 (continued)

| $\begin{gathered} \text { I tem } \\ \text { No. } \\ \hline \end{gathered}$ | Correct Answer | GLCE | Type | Description |
| :---: | :---: | :---: | :---: | :---: |
| 53 | D | A.FO.06.13 | Core | Multiply, divide numbers on both sides of equations |
| 54 | A | A.FO.06.13 | Core | Multiply, divide numbers on both sides of equations |
| 55 | A | M.UN.06.01 | Core | Convert measures within a single system |
| 56 | C | 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 | B | G.TR.06.03 | Core | Understand rigid motions \& relate to congruence |
| 59 | A | 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 | B | A.FO.06.04 | Extended | Distinguish between algebraic expression/equation |
| 62 | C | A.RP.06.08 | Extended | Relationships can be shown by graphs and tables |
| 63 | C | D.PR.06.02 | Extended | Compute probabilities of events from experiments |
| 64 | B | G.TR.06.04 | Extended | Use simple compositions of rigid transformations |
| 65 | C | N.FL. 06.12 | Extended-NC | Calculate part of a number given the \% and number |
| 66 | A | N.ME.06.05 | Extended | Order rational numbers and place on the number line |
| 67 | A | N.ME.06.06 | Extended | Show rationals as fractions or terminating decimals |
| 68 | B | N.ME.06.18 | Extended | Understand that rationals are quotients of integers |
| 69 | A | N.ME.06.19 | Extended | Understand that 0 is neither negative nor positive |

## Scoring Key: Part 3 (continued)

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

