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PART 1

DIRECTIONS

This test has two parts. You may NOT use a calculator on Part 1. You may use open space in this test booklet for scratch paper. No additional paper may be used.

Part 1 has only multiple-choice questions. You must choose the best answer from among four answer choices.

- 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 a question, be sure to mark the answer to the next question in the correct place in your Answer Document.

Sample Multiple-Choice Question:

Jackie had 56 trading cards. She gave some of the cards to Wanda. Then Jackie had 23 trading cards left. What was the total number of trading cards Jackie gave to Wanda?

A  23
B  33
C  39
D  79

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

You will have at least 50 minutes to finish Part 1 of this test. You will be given additional time if necessary.

Once you have reached the word STOP in your test booklet, do NOT go on to the next page.

If you finish early, you may check your work in Part 1 of the test ONLY. Do NOT look at questions in Part 2 of the test.
1. Read and write numbers to 10,000
   A. place value error
   B. place value error
   C. correct
   D. place value error

2. Which of the following shows “three thousand, four hundred six” written in standard form?
   A. 3,000,406
   B. 3,406
   C. 30,064
   D. 3,046

3. Identify place value of digit in a number
   A. place value error
   B. place value error
   C. place value error
   D. correct
4  Which of the following correctly represents 23,552?
   A  20,000 + 30,000 + 2,000 + 500 + 50 + 2
   B  2 + 3 + 5 + 5 + 2
   C  20,000 + 3,000 + 500 + 50 + 2
   D  20,000 + 3,000 + 500 + 2

5  Add and subtract thru 999 w/regrouping, 9,999 w/o
   A  added instead of subtracted
   B  did not regroup minuend
   C  subtracted minuend from subtrahend in ones place
   D  correct

6  Add   567 + 398
   A  855
   B  955
   C  965
   D  1,065
7 Estimate sum/difference of two 3-digit numbers

A correct

B rounded sum up to next 100

C overestimate

D overestimate

8 Which number is closest to the sum of 585 and 411?

A 100

B 300

C 900

D 1,000

9 Use x and ÷ to show the inverse relationship

A not in fact family

B not in fact family

C correct

D not in fact family
10 Which of the following is in the same fact family as \(35 \div 7 = 5\)?

A  \(5 + 7 = 12\)
B  \(5 \times 7 = 35\)
C  \(35 + 5 = 40\)
D  \(70 \div 7 = 10\)

11 Recognize multiplication and division situations

A  divisor
B  group size too small
C  correct
D  group size too large

12 Miguel read a book that was 54 pages long. He read 6 pages each day. Which number sentence below can be used to determine the total number of days it took Miguel to read the entire book?

A  \(54 - 6 = ?\)
B  \(54 \div 6 = ?\)
C  \(54 + 6 = ?\)
D  \(54 \times 6 = ?\)
13  Find products to 10 X 10 and related quotients

A  added instead of multiplied
B  used incorrect factor
C  used incorrect factors
D  correct

14  Multiply 3 × 9

A  3
B  6
C  12
D  27

15  Understand meaning & terminology of fractions

A  reciprocal
B  complement
C  twice the correct fraction
D  correct
16. Which of the following fractions has a numerator of 3?

A. \( \frac{1}{6} \)

B. \( \frac{2}{3} \)

C. \( \frac{3}{4} \)

D. \( \frac{9}{10} \)

17. Know benchmark temperatures & compare cooler, warmer

A. benchmark measure with incorrect unit

B. correct

C. other benchmark with incorrect unit

D. other benchmark

18. Which of the following is the boiling point of water?

A. 112°F

B. 180°F

C. 200°F

D. 212°F
19  Compose and decompose triangles and rectangles

   A  incorrect shape
   B  correct
   C  only one of three shapes used
   D  only two of three shapes used

20  Which of the following groups of shapes can be arranged without gaps or overlapping to form the figure below?

   A  
   B  
   C  
   D  

21. Identify, describe, classify familiar 3-D solids
   A. incorrect shape
   B. incorrect shape
   C. correct
   D. incorrect shape

22. Which shape has 12 edges, 8 vertices, and 6 faces?
   A. triangular prism
   B. triangular pyramid
   C. rectangular prism
   D. rectangular pyramid

23. Read scales on axes, identify the max, min, range
   A. neither maximum nor minimum
   B. neither maximum nor minimum
   C. maximum
   D. correct
24 The graph below shows the number of fossils collected by each of five friends on a field trip.

What is the range of the data represented on the graph?

A  20
B  12
C  10
D  7
25 Which number goes in the blank to make the statement below true?

\[ 5,642 < \______ < 6,633 \]

A 6,931  
B 5,610  
C 6,745  
D 5,841

26 All the sections of the figure below are the same size and shape.

```
+---+---+---+
|   |   |   |
+---+---+---+
|   |   |   |
+---+---+---+
```

What fractional part of the figure is shaded?

A \( \frac{1}{2} \)  
B \( \frac{1}{4} \)  
C \( \frac{4}{4} \)  
D \( \frac{8}{4} \)
27 Which number sentence is modeled on the number line below?

![Number Line Diagram]

A \( \frac{8}{10} - \frac{5}{10} = \frac{3}{10} \)

B \( \frac{8}{10} + \frac{5}{10} = \frac{13}{10} \)

C \( 0 + \frac{8}{10} = \frac{8}{10} \)

D \( 1 - \frac{5}{10} = \frac{5}{10} \)

28 Which of the following can be used to represent the length of a piece of string?

A ounces

B square inches

C inches

D square feet
29 Which of the following *best* represents a line?

A

B

C

D
30 Which could be a side view of a rectangular prism?

A

B

C

D
31 A class collected data about the number of children in each student’s family. The graph shows the results.

What is the total number of students with exactly 2 children in their family?

A 1
B 4
C 6
D 7
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 paper may be used.

This part of the test has only multiple-choice questions. You must choose the best answer from among four answer choices.

- Use only a No. 2 pencil to mark your answer in your Answer Document.
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Sample Multiple-Choice Question:

Jackie had 56 trading cards. She gave some of the cards to Wanda. Then Jackie had 23 trading cards left. What was the total number of trading cards Jackie gave to Wanda?

A  23
B  33
C  39
D  79

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

You will have at least 35 minutes to finish Part 2 of this test. You will be given additional time if needed.

Once you have reached the word STOP in your test booklet, do NOT go on to the next page.

If you finish early, you may check your work in Part 2 of the test ONLY. Do NOT look at questions in Part 1 of the test.
32 Bill bought 4 packs of baseball cards. Each pack contained 9 cards. What was the total number of baseball cards Bill bought?

A 5
B 13
C 32
D 36

33 Identify operation for problem and solve

A correct
B did not regroup correctly
C subtracted minuend from subtrahend in tens place
D added instead of subtracted

34 Bonnie and 3 friends shared $2.00 equally. What is the total amount each of them received?

A $6.00
B $1.00
C $0.75
D $0.50
35 Understand meaning of 0.50 & 0.25 related to money
   A incorrect amount
   B incorrect amount
   C correct
   D incorrect amount

36 What time was it 3 hours ago if it is now 2:00 p.m.?
   A 10:00 a.m.
   B 11:00 a.m.
   C 5:00 p.m.
   D 11:00 p.m.

37 Use common measures of length, weight, time
   A incorrect unit
   B incorrect unit
   C incorrect unit
   D correct
38 Maria and Tom watched a movie without a break. The movie started at 1:15 p.m. and ended at 2:45 p.m. How long was the movie?

A 1 hour 15 minutes
B 1 hour 30 minutes
C 1 hour 45 minutes
D 4 hours

39 Measure in mixed units within measurement system

A multiplied feet by 12 to get yards
B multiplied feet by 3 to get yards
C incorrect conversion
D correct

40 Which of the following is true?

A 25 meters > 25 centimeters
B 25 meters < 25 centimeters
C 250 centimeters > 25 meters
D 25 centimeters = 25 meters
41 Use relationships between sizes of standard units

A less
B less
C correct
D equal

42 What is the perimeter of a rectangle that has a length of 6 inches and a width of 5 inches?

A 11 inches
B 22 inches
C 30 inches
D 36 inches

43 Calculate area and perimeter of square & rectangle

A length of six sides
B measure for area not perimeter
C correct
D length of two sides
44 Add $25.45 + $15.75
   A $41.20
   B $40.20
   C $31.20
   D $30.20

45 Add and subtract money in dollars and cents
   A correct dollars, cents from subtrahend
   B correct
   C subtracted minuend from subtrahend with cents
   D did not regroup dollars
46   Tanya, Chung, Beth, and Jacob read books.

Books Read

<table>
<thead>
<tr>
<th>Name</th>
<th>Number Read</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tanya</td>
<td>12</td>
</tr>
<tr>
<td>Chung</td>
<td>18</td>
</tr>
<tr>
<td>Beth</td>
<td>15</td>
</tr>
<tr>
<td>Jacob</td>
<td>13</td>
</tr>
</tbody>
</table>

How many fewer books did Tanya read than Chung?

A   18
B   13
C   6
D   5

47   Solve problems using bar graphs, compare graphs

A   incorrect comparison of two bars
B   incorrect sum of two bars
C   correct
D   incorrect comparison of two bars
48 The length and width of Karen’s rectangular bedroom floor are shown below.

![Diagram of a rectangular bedroom floor with dimensions 10 ft by 8 ft.]

What is the area of the floor?
A 18 square feet
B 36 square feet
C 72 square feet
D 80 square feet

49 Which shape below never has parallel sides?
A square
B rectangle
C hexagon
D triangle
50 James started reading at 10:30 a.m. He read for 2 hours and 15 minutes without stopping. At what time did he finish reading?

A 10:45 a.m.
B 12:30 p.m.
C 12:45 p.m.
D 1:15 a.m.

51 Which of the following is closest to the perimeter of the shape below?
(Perimeter = distance around)

A 6 inches
B 8 inches
C 6 square inches
D 8 square inches
52  Which of the following lists the fractions in order from least to greatest?

A  $\frac{1}{2}' \frac{3}{4}' \frac{2}{8}$

B  $\frac{2}{8}' \frac{3}{4}' \frac{1}{2}$

C  $\frac{3}{4}' \frac{1}{2}' \frac{2}{8}$

D  $\frac{2}{8}' \frac{1}{2}' \frac{3}{4}$

53  What number goes in the box to make the number sentence below true?

$9 \times \blacksquare = 72$

A  6

B  7

C  8

D  9

54  Mrs. Walker has 31 students in her class. She wants to divide them into teams of 4 for a writing project. What is the greatest number of teams of 4 she could form?

A  2

B  4

C  7

D  10
### Scoring Key: Part 1

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Correct Answer</th>
<th>GLCE</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>C</td>
<td>N.ME.03.01</td>
<td>Core</td>
<td>Read and write numbers to 10,000</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>N.ME.03.01</td>
<td>Core</td>
<td>Read and write numbers to 10,000</td>
</tr>
<tr>
<td>3</td>
<td>D</td>
<td>N.ME.03.02</td>
<td>Core</td>
<td>Identify place value of digit in a number</td>
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<tr>
<td>4</td>
<td>C</td>
<td>N.ME.03.02</td>
<td>Core</td>
<td>Identify place value of digit in a number</td>
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<tr>
<td>5</td>
<td>D</td>
<td>N.FL.03.06</td>
<td>Core</td>
<td>Add and subtract thru 999 w/regrouping, 9,999 w/o</td>
</tr>
<tr>
<td>6</td>
<td>C</td>
<td>N.FL.03.06</td>
<td>Core</td>
<td>Add and subtract thru 999 w/regrouping, 9,999 w/o</td>
</tr>
<tr>
<td>7</td>
<td>A</td>
<td>N.FL.03.07</td>
<td>Core</td>
<td>Estimate sum / difference of two 3-digit numbers</td>
</tr>
<tr>
<td>8</td>
<td>D</td>
<td>N.FL.03.07</td>
<td>Core</td>
<td>Estimate sum / difference of two 3-digit numbers</td>
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<td>9</td>
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<td>N.MR.03.09</td>
<td>Core</td>
<td>Use x and ÷ to show the inverse relationship</td>
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<tr>
<td>10</td>
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<td>Core</td>
<td>Use x and ÷ to show the inverse relationship</td>
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<tr>
<td>11</td>
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<td>Core</td>
<td>Recognize multiplication and division situations</td>
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<tr>
<td>12</td>
<td>B</td>
<td>N.MR.03.10</td>
<td>Core</td>
<td>Recognize multiplication and division situations</td>
</tr>
<tr>
<td>13</td>
<td>D</td>
<td>N.FL.03.11</td>
<td>Core</td>
<td>Find products to 10 X 10 and related quotients</td>
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<tr>
<td>14</td>
<td>D</td>
<td>N.FL.03.11</td>
<td>Core</td>
<td>Find products to 10 X 10 and related quotients</td>
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<td>15</td>
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<td>N.ME.03.16</td>
<td>Core</td>
<td>Understand meaning &amp; terminology of fractions</td>
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<tr>
<td>16</td>
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<td>Understand meaning &amp; terminology of fractions</td>
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<tr>
<td>17</td>
<td>B</td>
<td>M.UN.03.04</td>
<td>Core</td>
<td>Know benchmark temperatures &amp; compare cooler, warmer</td>
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<tr>
<td>18</td>
<td>D</td>
<td>M.UN.03.04</td>
<td>Core</td>
<td>Know benchmark temperatures &amp; compare cooler, warmer</td>
</tr>
<tr>
<td>19</td>
<td>B</td>
<td>G.SR.03.05</td>
<td>Core</td>
<td>Compose and decompose triangles and rectangles</td>
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<tr>
<td>20</td>
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<td>G.SR.03.05</td>
<td>Core</td>
<td>Compose and decompose triangles and rectangles</td>
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<tr>
<td>21</td>
<td>C</td>
<td>G.GS.03.06</td>
<td>Core</td>
<td>Identify, describe, classify familiar 3-D solids</td>
</tr>
<tr>
<td>22</td>
<td>C</td>
<td>G.GS.03.06</td>
<td>Core</td>
<td>Identify, describe, classify familiar 3-D solids</td>
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<tr>
<td>23</td>
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<td>D.RE.03.02</td>
<td>Core</td>
<td>Read scales on axes. Identify the max, min, range</td>
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<td>Item No.</td>
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<td>GLCE</td>
<td>Type</td>
<td>Description</td>
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<td>24</td>
<td>D</td>
<td>D.RE.03.02</td>
<td>Core</td>
<td>Read scales on axes. Identify the max, min, range</td>
</tr>
<tr>
<td>25</td>
<td>D</td>
<td>N.ME.03.03</td>
<td>Extended</td>
<td>Compare and order numbers up to 10,000.</td>
</tr>
<tr>
<td>26</td>
<td>A</td>
<td>N.ME.03.17</td>
<td>Extended</td>
<td>Recognize, name and use equivalent fractions</td>
</tr>
<tr>
<td>27</td>
<td>A</td>
<td>N.MR.03.20</td>
<td>Extended</td>
<td>Model +, - of fractions on number line</td>
</tr>
<tr>
<td>28</td>
<td>C</td>
<td>M.UN.03.07</td>
<td>Extended</td>
<td>Distinguish between units of length and area in cont</td>
</tr>
<tr>
<td>29</td>
<td>D</td>
<td>G.GS.03.01</td>
<td>Extended</td>
<td>Identify points, line segments, lines and distance</td>
</tr>
<tr>
<td>30</td>
<td>A</td>
<td>G.GS.03.04</td>
<td>Extended</td>
<td>Identify, describe, compare, classify 2-D shapes</td>
</tr>
<tr>
<td>31</td>
<td>D</td>
<td>D.RE.03.01</td>
<td>Extended</td>
<td>Read &amp; interpret horizontal and vertical bar graphs</td>
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**Scoring Key: Part 2**

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<th>Item No.</th>
<th>Correct Answer</th>
<th>GLCE</th>
<th>Type</th>
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<tbody>
<tr>
<td>32</td>
<td>D</td>
<td>N.MR.03.15</td>
<td>Core</td>
<td>Identify operation for problem and solve</td>
</tr>
<tr>
<td>33</td>
<td>A</td>
<td>N.MR.03.15</td>
<td>Core</td>
<td>Identify operation for problem and solve</td>
</tr>
<tr>
<td>34</td>
<td>D</td>
<td>N.ME.03.21</td>
<td>Core</td>
<td>Understand meaning of 0.50 &amp; 0.25 related to money</td>
</tr>
<tr>
<td>35</td>
<td>C</td>
<td>N.ME.03.21</td>
<td>Core</td>
<td>Understand meaning of 0.50 &amp; 0.25 related to money</td>
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<tr>
<td>36</td>
<td>B</td>
<td>M.UN.03.01</td>
<td>Core</td>
<td>Use common measures of length, weight, time</td>
</tr>
<tr>
<td>37</td>
<td>D</td>
<td>M.UN.03.01</td>
<td>Core</td>
<td>Use common measures of length, weight, time</td>
</tr>
<tr>
<td>38</td>
<td>B</td>
<td>M.UN.03.02</td>
<td>Core</td>
<td>Measure in mixed units within measurement system</td>
</tr>
<tr>
<td>39</td>
<td>D</td>
<td>M.UN.03.02</td>
<td>Core</td>
<td>Measure in mixed units within measurement system</td>
</tr>
<tr>
<td>40</td>
<td>A</td>
<td>M.UN.03.03</td>
<td>Core</td>
<td>Use relationships between sizes of standard units</td>
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<tr>
<td>41</td>
<td>C</td>
<td>M.UN.03.03</td>
<td>Core</td>
<td>Use relationships between sizes of standard units</td>
</tr>
<tr>
<td>42</td>
<td>B</td>
<td>M.UN.03.05</td>
<td>Core</td>
<td>Calculate area and perimeter of square &amp; rectangle</td>
</tr>
<tr>
<td>43</td>
<td>C</td>
<td>M.UN.03.05</td>
<td>Core</td>
<td>Calculate area and perimeter of square &amp; rectangle</td>
</tr>
<tr>
<td>44</td>
<td>A</td>
<td>M.PS.03.11</td>
<td>Core</td>
<td>Add and subtract money in dollars and cents</td>
</tr>
<tr>
<td>45</td>
<td>B</td>
<td>M.PS.03.11</td>
<td>Core</td>
<td>Add and subtract money in dollars and cents</td>
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### Scoring Key: Part 2 (Continued)

<table>
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<tr>
<th>Item No.</th>
<th>Correct Answer</th>
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<th>Type</th>
<th>Description</th>
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<tbody>
<tr>
<td>46</td>
<td>D</td>
<td>D.RE.03.03</td>
<td>Core</td>
<td>Solve problems using bar graphs, compare graphs</td>
</tr>
<tr>
<td>47</td>
<td>C</td>
<td>D.RE.03.03</td>
<td>Core</td>
<td>Solve problems using bar graphs, compare graphs</td>
</tr>
<tr>
<td>48</td>
<td>D</td>
<td>M.PS.03.13</td>
<td>Extended</td>
<td>Solve problems about perimeter/area of rectangles</td>
</tr>
<tr>
<td>49</td>
<td>D</td>
<td>G.GS.03.02</td>
<td>Future</td>
<td>Identify perpendicular lines and parallel lines</td>
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<tr>
<td>50</td>
<td>C</td>
<td>M.PS.03.10</td>
<td>Future</td>
<td>Add and subtract lengths, weights and times</td>
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<tr>
<td>51</td>
<td>B</td>
<td>M.TE.03.09</td>
<td>Future</td>
<td>Estimate perimeter &amp; area of square &amp; rectangle</td>
</tr>
<tr>
<td>52</td>
<td>D</td>
<td>N.ME.03.18</td>
<td>Future</td>
<td>Place &amp; compare fractions on number line</td>
</tr>
<tr>
<td>53</td>
<td>C</td>
<td>N.MR.03.12</td>
<td>Future</td>
<td>Find solutions to open sentences that use x and ÷</td>
</tr>
<tr>
<td>54</td>
<td>C</td>
<td>N.MR.03.14</td>
<td>Future</td>
<td>Solve division problems involving remainders</td>
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Updated 2/10/09