Test Administrator Instructions:

This practice test has Subpart 1, Subpart 2, and Subpart 3. There is also an answer document and an answer key at the end of this document. It is recommended that you print one copy of this practice test and pull the answer key before copying and distributing the practice test and answer document to your students.

This practice test is representative of the operational test but is shorter than the actual operational test. To see the details about the operational test, please see the blueprints located on the Tennessee Department of Education website.
Directions

Subpart 1 of this Practice Test booklet contains sample items for Grade 5 Math. You may use this test booklet for scratch paper or to make notes, but you must mark your answers on your answer document.

You MAY NOT use a calculator in Subpart 1 of this test booklet.

Sample 1: Selected-Response

1. Three of the expressions below have a value of 12. Mark the three answer choices that have a value of 12 on your answer document.
   - A. $2 \times 6$
   - B. $5 \times 8$
   - C. $7 \times 2$
   - D. $4 \times 3$
   - E. $1 \times 12$

Sample 2: Match

2. Match each fraction on the left with its equivalent fraction on the top row. Mark your answers on your answer document.

<table>
<thead>
<tr>
<th>$\frac{2}{4}$</th>
<th>$\frac{2}{8}$</th>
<th>$\frac{1}{3}$</th>
</tr>
</thead>
<tbody>
<tr>
<td>$\frac{2}{6}$</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>$\frac{1}{2}$</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>$\frac{1}{4}$</td>
<td>O</td>
<td>O</td>
</tr>
</tbody>
</table>
1. What is $3\frac{1}{8} + \frac{3}{4}$?
Write your answer in the space provided on your answer document.

2. What is the value of $217 \times 33$?
Write your answer in the space provided on your answer document.

3. A menu is shown.

<table>
<thead>
<tr>
<th>Food</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hot dog</td>
<td>$2.00</td>
</tr>
<tr>
<td>Chili dog</td>
<td>$2.35</td>
</tr>
<tr>
<td>Chips</td>
<td>$1.25</td>
</tr>
<tr>
<td>Fries</td>
<td>$2.75</td>
</tr>
<tr>
<td>Lemonade</td>
<td>$2.25</td>
</tr>
</tbody>
</table>

Match each meal on the left with its total cost on the top row. Mark your answers on your answer document.

<table>
<thead>
<tr>
<th>Meal</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hot dog and lemonade</td>
<td>$3.60</td>
</tr>
<tr>
<td>Chili dog and chips</td>
<td>$3.60</td>
</tr>
<tr>
<td>Chili dog and fries</td>
<td>$3.60</td>
</tr>
</tbody>
</table>
4. There are 4 ropes. Each one is \(3 \frac{1}{4}\) feet long. Select all of the expressions that would give the total length of all the ropes.

A. \(3 \frac{1}{4} + 3 \frac{1}{4} + 3 \frac{1}{4} + 3 \frac{1}{4}\)

B. \(4 \times \frac{12}{4}\)

C. \(4 \times \frac{13}{4}\)

D. \(\frac{1}{4} \times 3 \frac{1}{4}\)

E. \(\frac{12}{4} + \frac{12}{4} + \frac{12}{4} + \frac{12}{4}\)

F. \(\frac{13}{4} + \frac{13}{4} + \frac{13}{4} + \frac{13}{4}\)

5. What is the value of the digit 7 when 2.7 is multiplied by \(10^2\)?

A. 0.007

B. 0.07

C. 7

D. 70

6. What is the value of \(384 \div 16\)?

A. 64

B. 38

C. 24

D. 23
7. What is $\frac{3}{8} - \frac{3}{4}$?

Write your answer in the space provided on your answer document.

8. The line plot shows the distance, in miles, that Jenny walked on 5 different days.

How many total miles did Jenny walk? Write your answer in the space provided on your answer document.
9. Using the graph on your answer document, graph the point (3, 7) on the coordinate grid.

![Coordinate Grid](image)

10. Which statement **best** describes the value of $8 \div 4 \times 7 + (38 - 15)$?

   A. the quotient of 8 and 4, times 7, plus the sum of 38 and 15
   B. the product of 4 and 7 divided by 8, plus 38, minus 15
   C. the product of 8 and 4 times 7, plus the difference of 38 and 15
   D. the quotient of 8 and 4, times 7, plus the difference of 38 and 15
Directions

Subpart 2 of this Practice Test booklet contains sample items for Grade 5 Math. Write your answers on your answer document.

You MAY use a calculator in Subpart 2 of this test booklet.

11. Which graph shows the point (0, 7)?

A. 

B. 

C. 

D.
12. A fence company is building a square fence. Each side of the square is 0.2 kilometers long. What is the length, in **meters**, of the fence?

Write your answer in the space provided on your answer document.

13. Choose the symbol that correctly completes the comparison.

\[ 424.16 \ ? \ 424.106 \]

A. <
B. >
C. =

14. Carol has \(8 \frac{3}{4}\) yards of material. She needs to use \(\frac{1}{3}\) of the material to make a dress. How many yards of material will she need to make the dress?

Write your answer in the space provided on your answer document.
15. A set of ordered pairs is created using the following rules:

- The \( x \)-coordinate in the set starts with 0 and increases by 3.
- The \( y \)-coordinate in the set starts with 0 and increases by 9.

Mark one number in each row on your answer document to correctly complete the ordered pairs.

<table>
<thead>
<tr>
<th>Ordered Pairs in the Set</th>
<th>Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3</td>
</tr>
<tr>
<td>(?, 9)</td>
<td>O</td>
</tr>
<tr>
<td>(6, ?)</td>
<td>O</td>
</tr>
<tr>
<td>(?, 27)</td>
<td>O</td>
</tr>
<tr>
<td>(12, ?)</td>
<td>O</td>
</tr>
</tbody>
</table>

16. What is 2.078 rounded to the hundredths place?

A. 2.10  
B. 2.08  
C. 2.07  
D. 2.00
17. Which point is located at (8, 0) on the graph?

A. point A
B. point B
C. point C
D. point D
18. What is the volume of this figure?

- A. 12 cubic units
- B. 16 cubic units
- C. 28 cubic units
- D. 40 cubic units

19. Which expression correctly shows 26 minus the sum of 8 and 2?

- A. $(26 - 8) + 2$
- B. $26 - (8 + 2)$
- C. $(26 + 8) - 2$
- D. $26 + (8 - 2)$
20. John is building a stage for a school play. The stage is $15\frac{1}{2}$ feet long and 20 feet wide. Select all options that represent the area of the stage, in square feet.

A. $\frac{31}{2} \times \frac{1}{20}$

B. $\frac{30}{2} \times 20$

C. $\frac{31}{2} \times 20$

D. 300

E. 310

21. Students in a science class were measuring the length of their classroom door.

- Kelly wrote the number 2 units.
- Paul wrote the number 200 units.

Which statement shows how both Kelly and Paul can be correct?

A. Kelly measured in centimeters, and Paul measured in meters.

B. Kelly measured in meters, and Paul measured in centimeters.

C. Kelly measured in kilometers, and Paul measured in centimeters.

D. Kelly measured in centimeters, and Paul measured in kilometers.
22. Form ordered pairs using the corresponding terms from the two sequences.

Sequence A: 0, 7, 14, 21, 28, . . .

Sequence B: 0, 14, 28, 42, 56, . . .

Mark one number in each row on your answer document to correctly complete the ordered pairs.

<table>
<thead>
<tr>
<th>Ordered Pairs in the Set</th>
<th>Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0</td>
</tr>
<tr>
<td>(0, ?)</td>
<td>O</td>
</tr>
<tr>
<td>(? , 14)</td>
<td>O</td>
</tr>
<tr>
<td>(14, ?)</td>
<td>O</td>
</tr>
<tr>
<td>(21, ?)</td>
<td>O</td>
</tr>
<tr>
<td>(? , 56)</td>
<td>O</td>
</tr>
</tbody>
</table>
Directions

Subpart 3 of this Practice Test booklet contains sample items for Grade 5 Math. Write your answers on your answer document.

You MAY use a calculator in Subpart 3 of this test booklet.

23. The number shown has a bold digit and an underlined digit.

\[44,000\]

Which statement correctly describes the bold and underlined digits?

A. The bold 4 is \(\frac{1}{10}\) the underlined 4.
B. The bold 4 is 10 times the underlined 4.
C. The bold 4 is one time the underlined 4.
D. The bold 4 is \(\frac{1}{2}\) the underlined 4.

24. The first layer of a rectangular prism is packed with 12 unit cubes. There are no spaces or gaps between the cubes. The prism is 3 unit cubes tall. Select all expressions that represent the volume of the rectangular prism.

A. \(12 + 3\)
B. \(12 \times 3\)
C. \(12 \times 3 \times 3\)
D. \(12 \times 12 \times 3\)
E. \(12 + 12 + 12\)
25. Write the sum of 42.6 + 0.45 + 30.22 in the space provided on your answer document.

26. There are 5 bags of jelly beans. Each bag is \( \frac{7}{8} \) full. Select the expression that can be used to represent the total amount of bags of jelly beans in all.
   
   A. \( 7 \div (8 \times 5) \)
   B. \( (5 \times 7) \div 8 \)
   C. \( 8 \div (7 \times 5) \)
   D. \( 6 \times (7 \div 5) \)

27. Which ordered pair describes the point shown on the graph?

   A. (4, 6)
   B. (5, 3)
   C. (6, 4)
   D. (7, 5)
28. Select all correct answers.

Find the sum.

\[
\frac{1}{4} + \frac{5}{6}
\]

A. \[
\frac{1}{4} + \frac{5}{6} = \frac{15}{12} + \frac{10}{12} = \frac{25}{12}
\]

B. \[
\frac{1}{4} + \frac{5}{6} = \frac{25}{24} + \frac{20}{24} = \frac{45}{24}
\]

C. \[
\frac{1}{4} + \frac{5}{6} = \frac{13}{12} + \frac{10}{12} = \frac{23}{12}
\]

D. \[
\frac{1}{4} + \frac{5}{6} = \frac{30}{24} + \frac{20}{24} = \frac{50}{24}
\]

E. \[
\frac{1}{4} + \frac{5}{6} = \frac{25}{24} + \frac{20}{24} = \frac{5}{24}
\]

29. What is 473.69 rounded to the nearest whole number?

Write your answer in the space provided on your answer document.
30. A cup is filled with pencils. The teacher sharpened \( \frac{1}{4} \) of them. A student sharpened \( \frac{2}{3} \) of them. The fraction of pencils left to be sharpened is \( \text{______} \).

A. \( \frac{11}{12} \)
B. \( \frac{8}{12} \)
C. \( \frac{3}{12} \)
D. \( \frac{1}{12} \)

31. A plastic container has a square base with an area of 25 inches\(^2\). The container has a height of 4 inches. What is the volume, in cubic inches, of the container?

Write your answer in the space provided on your answer document.

32. Select all the numbers with values less than twelve and thirteen-hundredths.

A. thirteen and eleven-hundredths
B. twelve and one hundred forty six-thousandths
C. nine and five-tenths
D. 12.103
E. 8.72
33. Carl has 4 candy bars. Each candy bar has 12 sections. He wants to share the candy bars equally with 11 friends and have some for himself.

Shade the number of sections of the candy bars one person would get.

34. Charlie used 3 different kinds of juice to make 4.4 liters of punch.

Select the three juices Charlie used to make the punch.

A. 0.5 liter of orange juice
B. 1.5 liters of grape juice
C. 2.25 liters of apple juice
D. 1.65 liters of cherry juice

This is the end of the test.
<table>
<thead>
<tr>
<th>Conversion</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mile = 5,280 feet</td>
</tr>
<tr>
<td>1 mile = 1,760 yards</td>
</tr>
<tr>
<td>1 pound = 16 ounces</td>
</tr>
<tr>
<td>1 ton = 2000 pounds</td>
</tr>
<tr>
<td>1 cup = 8 fluid ounces</td>
</tr>
<tr>
<td>1 pint = 2 cups</td>
</tr>
<tr>
<td>1 quart = 2 pints</td>
</tr>
<tr>
<td>1 gallon = 4 quarts</td>
</tr>
<tr>
<td>1 liter = 1000 cubic centimeters</td>
</tr>
</tbody>
</table>
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Name: __________________________________________

Subpart 1 Sample Questions

1.   A   B   C   D   E

2. 

<table>
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<th></th>
<th>2/4</th>
<th>2/8</th>
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<td>O</td>
</tr>
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<td>1/4</td>
<td>O</td>
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Subpart 1 Practice Test Questions

1. ____________________________

2. ____________________________

3.  

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<td>O</td>
</tr>
<tr>
<td>Chili dog and fries</td>
<td>O</td>
</tr>
</tbody>
</table>
Subpart 2 Practice Test Questions

11. A B C D

12. 

13. A B C

14. 

10. A B C D
15. Ordered Pairs in the Set | Numbers
<table>
<thead>
<tr>
<th>3</th>
<th>6</th>
<th>9</th>
<th>18</th>
<th>27</th>
<th>36</th>
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<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>(6, ?)</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>(?, 27)</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>(12, ?)</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
</tbody>
</table>

16. □ □ □ □
17. □ □ □ □
18. □ □ □ □
19. □ □ □ □
20. □ □ □ □ □
21. □ □ □ □
22. Numbers

<table>
<thead>
<tr>
<th>Ordered Pairs in the Set</th>
<th>0</th>
<th>7</th>
<th>28</th>
<th>42</th>
</tr>
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<tbody>
<tr>
<td>(0, ?)</td>
<td>o</td>
<td>o</td>
<td>o</td>
<td>o</td>
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<tr>
<td>(? , 14)</td>
<td>o</td>
<td>o</td>
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<td>o</td>
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<td>o</td>
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<td>o</td>
</tr>
<tr>
<td>(21, ?)</td>
<td>o</td>
<td>o</td>
<td>o</td>
<td>o</td>
</tr>
<tr>
<td>(? , 56)</td>
<td>o</td>
<td>o</td>
<td>o</td>
<td>o</td>
</tr>
</tbody>
</table>

Subpart 3 Practice Test Questions

23. A B C D

24. A B C D E

25. 

26. A B C D

27. A B C D

28. A B C D E

29. 

30. A B C D
31. 

32. A B C D E

33. 

34. A B C D
Subpart 1 Sample Questions

1. • ○ ○ ● ●

2.

<table>
<thead>
<tr>
<th></th>
<th>2/4</th>
<th>2/8</th>
<th>1/3</th>
</tr>
</thead>
<tbody>
<tr>
<td>2/6</td>
<td>○</td>
<td>○</td>
<td>●</td>
</tr>
<tr>
<td>1/2</td>
<td>●</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>1/4</td>
<td>○</td>
<td>●</td>
<td>○</td>
</tr>
</tbody>
</table>

Subpart 1 Practice Test Questions

1. $3\frac{7}{8}$ or any equivalent

2. 7161

3.

<table>
<thead>
<tr>
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<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$3.60</td>
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<td>○</td>
</tr>
<tr>
<td>Chili dog and chips</td>
<td>●</td>
</tr>
<tr>
<td>Chili dog and fries</td>
<td>○</td>
</tr>
</tbody>
</table>

4. ● ○ ● ○ ○ ● ●

5. ○ ○ ○ ●

6. ○ ○ ● ○

7. $\frac{5}{8}$ or any equivalent
8. $3 \frac{3}{4}$ or any equivalent

9.

\[ \text{Diagram of a coordinate plane with point at (3, 7)} \]

10. A B C •

Subpart 2 Practice Test Questions

11. A B • D

12. 800

13. A • C

14. $2 \frac{11}{12}$ or any equivalent
15. Ordered Pairs in the Set | Numbers
<table>
<thead>
<tr>
<th></th>
<th>3</th>
<th>6</th>
<th>9</th>
<th>18</th>
<th>27</th>
<th>36</th>
</tr>
</thead>
<tbody>
<tr>
<td>(?, 9)</td>
<td>●</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>(6, ?)</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>●</td>
<td>O</td>
</tr>
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<td>(?, 27)</td>
<td>O</td>
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<td>●</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>(12, ?)</td>
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<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>●</td>
</tr>
</tbody>
</table>

16. A  ●  O  O
17. A  O  O  ●
18. A  O  ●  O
19. A  ●  O  O
20. A  O  ●  O  ●
21. A  ●  O  O
22. Numbers

<table>
<thead>
<tr>
<th>Ordered Pairs in the Set</th>
<th>0</th>
<th>7</th>
<th>28</th>
<th>42</th>
</tr>
</thead>
<tbody>
<tr>
<td>(0, [?])</td>
<td>●</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>([?], 14)</td>
<td>○</td>
<td>●</td>
<td>○</td>
<td>○</td>
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<tr>
<td>(14, [?])</td>
<td>○</td>
<td>○</td>
<td>●</td>
<td>○</td>
</tr>
<tr>
<td>(21, [?])</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>●</td>
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<tr>
<td>([?], 56)</td>
<td>○</td>
<td>○</td>
<td>●</td>
<td>○</td>
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</tbody>
</table>

Subpart 3 Practice Test Questions

23. A ● ○ ○
24. A ● ○ ○ ●
25. 73.27
26. A ● ○ ○
27. A ● ○ ○
28. ● ○ ○ ● ○ ○
29. 474
30. A ● ○ ●
31. 100
32. A ● ● ● ●
33.
Answers may vary. Students can shade any 4 of the sections.

34. ● ◎ ● ●