The purpose of these practice test materials is to orient teachers and students to the types of questions on paper-based FSA tests. By using these materials, students will become familiar with the types of items and response formats they may see on a paper-based test. The practice questions and answers are not intended to demonstrate the length of the actual test, nor should student responses be used as an indicator of student performance on the actual test. The practice test is not intended to guide classroom instruction.
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Session 1
1. Which expression is equivalent to $4(6x + 11)$?

- A. 68
- B. $68x$
- C. $24x + 11$
- D. $24x + 44$

2. Select the values of $x$ that make each equation or inequality true.

<table>
<thead>
<tr>
<th></th>
<th>$x = 1$</th>
<th>$x = 2$</th>
<th>$x = 3$</th>
</tr>
</thead>
<tbody>
<tr>
<td>$2x + 5 = 9$</td>
<td>A</td>
<td>D</td>
<td>C</td>
</tr>
<tr>
<td>$2x + 5 &lt; 9$</td>
<td>D</td>
<td>E</td>
<td>F</td>
</tr>
<tr>
<td>$2x + 5 \leq 9$</td>
<td>D</td>
<td>D</td>
<td>D</td>
</tr>
</tbody>
</table>
3. Chicago has a temperature of −10 degrees Fahrenheit (°F). It is colder in Minneapolis than in Chicago.

Select all the values that could represent the temperature of Minneapolis.

- 12°F
- 8°F
- −8°F
- −12°F
- −20°F

4. Dominic is buying candy by the pound for a party. For every 10 pounds of candy he buys, he pays $12.

What is the cost, per pound, for the candy?

Other correct responses: 1.2
5. Which question can be answered using the expression $\frac{1}{3} \div \frac{3}{4}$?

- A Dan fills $\frac{1}{3}$ of a mold that holds $\frac{3}{4}$ pound of sand. How much sand did Dan use to fill the mold?

- B Dan fills $\frac{3}{4}$ of a mold that holds $\frac{1}{3}$ pound of sand. How much sand did Dan use to fill the mold?

- C How many $\frac{3}{4}$-pound molds are in $\frac{1}{3}$ pound of sand?

- D How many $\frac{1}{3}$-pound molds are in $\frac{3}{4}$ pound of sand?
6. An expression is shown.

\[
\frac{1608}{268}
\]

What is the value of the expression?

7. Amir collected data from his sixth-grade class at Liberty Middle School.

Which question could Amir ask as a statistical question?

A. What time do classes start at Liberty Middle School?
B. What is your favorite subject?
C. How many students are in sixth grade at the start of this year?
D. How many subjects are there in sixth grade?
8. Carl is shipping a cardboard box that is a rectangular prism. The net of Carl’s box is shown.

What is the area of cardboard, in square inches, required for Carl’s box?
9. What is the value of $(5)^3$?

10. Fill in the bubbles to match the equivalent expressions.

<table>
<thead>
<tr>
<th></th>
<th>4(10+9)</th>
<th>9(5+2)</th>
<th>3(12+7)</th>
</tr>
</thead>
<tbody>
<tr>
<td>36 + 21</td>
<td>A</td>
<td>B</td>
<td>●</td>
</tr>
<tr>
<td>45 + 18</td>
<td>D</td>
<td>●</td>
<td>F</td>
</tr>
<tr>
<td>40 + 36</td>
<td>●</td>
<td>H</td>
<td>1</td>
</tr>
</tbody>
</table>
This is the end of Session 1.
Session 2
11. A class survey provides the data shown.

1, 4, 4, 5, 5, 5, 6, 6, 7, 7, 7, 8, 8, 9, 11

Which box plot represents the class?

A

B

C

D
12. Select all the statements that describe the expression $5 + 2x$.

- A. The expression represents 5 plus 2 plus $x$.
- B. The expression represents 5 plus 2 times $x$.
- C. The expression represents 5 plus $x$ plus $x$.
- D. The expression represents 5 plus $x$ times $x$.
- E. The expression represents the sum of 5 and 2$x$.
- F. The expression represents the product of 5 and 2$x$.
13. An expression is shown.

\[ 590.92 - 219.38 \]

What is the value of the expression?
14. In a circle, which ratio is equivalent to $\pi$?

- A  radius to area
- B  diameter to radius
- C  area to circumference
-  circumference to diameter
15. A line plot shows the number of cans a class of students at Epping Middle School collected for a canned food drive.

How many students collected cans of food?
16. Chicago, Illinois, has an elevation of 600 feet above sea level. The elevation of Desert Shores, California, is 800 feet less than the elevation of Chicago.

Select all options that apply to Desert Shores.

- elevation of –200 feet
- elevation of 200 feet
- below sea level
- at sea level
- above sea level
17. Alex has 64 cubes, with dimensions in feet (ft), like the one shown.

He uses all the cubes to fill a box shaped like a larger rectangular prism. There are no gaps between the cubes.

A. What is the volume, in cubic feet, of the larger rectangular prism?
B. What is a possible set of dimensions, in feet, of the larger rectangular prism?

*Length* = 2

*Width* = 2

*Height* = 2

Other correct responses: for part B, any rectangular prism where \( \text{length} \times \text{width} \times \text{height} = 8 \)
18. Tim drives the Grand Avenue bus route. He records the total number of passengers each week for 4 weeks.

The mean and mean absolute deviation of the data are shown.

- Mean: 17,123
- Mean absolute deviation: 611

Select all the possible numbers of riders for week 5 that are within the mean absolute deviation.

A 16,297
B 16,809
C 17,724
D 17,956
E 18,013
19. The points (4, –6) and (9, –6) represent the location of two towns on a coordinate grid, where one unit is equal to one mile.

What is the distance, in miles, between the two towns?
This is the end of Session 2.