LEAP 2025

Mathematics

PBT Practice Test
Grade 3
Communication
Assistance Script

DEPARTMENT of EDUCATION

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Instructions for Signing the Test
This script is written as it should be signed or read to the student. Pause when <pause> is inserted in text.

Session 1

Directions: *<pause>*

Today, you will take Session 1 of the Grade 3 Mathematics Test. You will not be able to use a calculator in this session. *<pause>*

Read each question. Then, follow the directions to answer each question. Mark your answers by completely filling in the circles in your test booklet. Do not make any stray pencil marks outside of the circles. If you need to change an answer, be sure to erase your first answer completely. *<pause>*

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If you do not know the answer to a question, you may go to the next question. If you finish early, you may review your answers and any questions you did not answer in this session **ONLY**. Do not go past the stop sign. *<pause>*

Directions for Completing the Answer Grids *<pause>*

1.   Work the problem and find an answer. *<pause>*

2.   Write your answer in the boxes at the top of the grid. *<pause>*

3.   Print only one number or symbol in each box. Do not leave a blank box in the middle of an answer. *<pause>*

4.   Under each box, fill in the circle that matches the number or symbol you wrote above. Make a solid mark that completely fills the circle. *<pause>*

5.   Do not fill in a circle under an unused box. *<pause>*

6.   See below for an example on how to correctly complete an answer grid. *<pause>*

To answer six hundred thirty-two in a question, fill in the answer grid as shown below in your test booklet. *<pause>*

For the answer choices in this question, please sign or read only the letters A, B, C, D.

Question 1.

Each model equals one whole divided into equal parts. Which models show one-fourth shaded? *<pause>*

Select the **three** correct answers. *<pause>*

A.
B.
C.
D.
E.
F.

Question 2.

A tablet has a rectangular screen with a width of seven inches and a length of nine inches. Select the **three** ways to calculate the area of the screen, in square inches. *<pause>*

A.   Seven times seven
B.   Seven times nine
C.   Nine times seven
D.   Nine times nine
E.   Seven plus seven plus seven plus seven plus seven plus seven plus seven
F.   Nine plus nine plus nine plus nine plus nine plus nine plus nine

For the answer choices in this question, please sign or read only the letters A, B, C, D.

Question 3.

A model is divided into eight equal parts. Which model shows the correct shading of five-eighths? *<pause>*

A.
B.
C.
D.

Question 4.

Which **two** statements can be represented by the expression four times eight? *<pause>*

A.   A teacher puts eight chairs at each of four tables.
B.   Tom buys four red markers and eight black markers.
C.   Marie shares her eight marbles equally among four friends.
D.   There are four rows of flowers. There are eight flowers in each row.
E.   There are eight ducks in the pond. Then, four more ducks join them.

Question 5.

A boat ride across a lake is forty-nine minutes each way. How many minutes does the boat ride take to go across the lake and back? *<pause>*

A.   forty-nine
B.   fifty-one
C.   fifty-four
D.   ninety-eight

For the answer choices in this question, please sign or read only the letters A, B, C, D.

Question 6.

Which number line shows a point at five-sixths? *<pause>*

A.
B.
C.
D.

Question 7.

Enter your answer in the box. *<pause>*

$$3 \times 80 =$$

Three times eighty equals blank. *<pause>*

Question 8.

Which statements are true? *<pause>*

Select the **three** correct answers. *<pause>*

A.   six times six equals nine times four
B.   eight times eight equals nine times six
C.   nine times eight equals seven times six
D.   eighty-one divided by nine equals seventy-two divided by eight
E.   forty-eight divided by six equals sixty-four divided by eight

For the answer choices in this question, please sign or read only the letters A, B, C, D.

Question 9.

Eric measures ten leaves with a ruler. He records the lengths as shown. *<pause>*

Lengths of Leaves (inches)

$5\frac{1}{2}$, $6\frac{1}{2}$, $6\frac{1}{2}$, 6, $5\frac{3}{4}$, $5\frac{1}{2}$, 6, 6, $5\frac{1}{2}$, 6

Lengths of Leaves, inches. *<pause>*

Five and one-half, six and one-half, six and one-half, six, five and three-fourths, five and one-half, six, six, five and one-half, six. *<pause>*

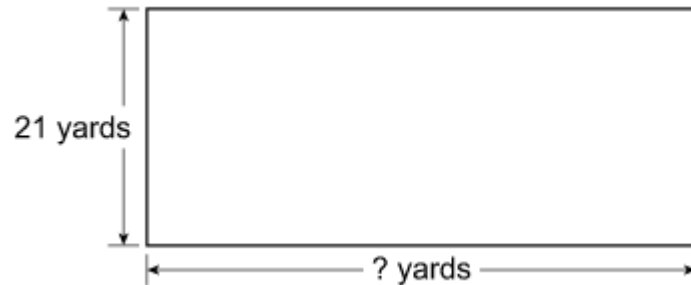Which line plot shows the lengths of the leaves recorded correctly? *<pause>*

All answer choices have line plots titled, "Length of Leaf, inches" with the numbers five, six, seven below the line plot. *<pause>*

A.
B.
C.
D.

Question 10.

Part A *<pause>*

The rectangular garden at River Valley School is represented in the figure. The perimeter of the garden is one hundred twenty-two yards. *<pause>*

The label to the left of the rectangle is twenty-one yards. The label below the rectangle is question mark yards. *<pause>*

What is the missing side length, in yards, in the figure? *<pause>*

Enter your answer in the box. *<pause>*

Part B *<pause>*

River Valley School builds a new rectangular garden with the same perimeter, but the side lengths are different. *<pause>*

Which of these could be the side lengths of the new garden? *<pause>*

A.   fifteen yards by forty-eight yards
B.   fourteen yards by forty-seven yards
C.   thirteen yards by fifty-seven yards
D.   fourteen yards by fifty-eight yards

Question 11.

Ken draws a rectangle with an area of thirty-five square inches. The width of the rectangle is five inches. *<pause>*

What is the length, in inches, of Ken's rectangle? *<pause>*

Enter your answer in the box. *<pause>*

Use the information provided to answer Part A and Part B for question 12.

Question 12.

Jeanie has different colored buttons as shown. She wants to determine the total number of buttons she has altogether. *<pause>*

- twenty blue *<pause>*
- nineteen orange *<pause>*
- thirty-one red *<pause>*
- twenty-eight yellow *<pause>*

Part A *<pause>*

Jeanie explains there are a total of eight hundred eighteen buttons because zero plus nine plus one plus eight equals eighteen in the ones place, so she writes down eighteen. Then two plus one plus three plus two equals eight in the tens place, so she writes down eight in front of the eighteen. *<pause>*

Explain why Jeanie's reasoning is incorrect. Find the total number of buttons she has altogether. *<pause>*

Enter your answer and your explanation in the box provided. *<pause>*

Part B *<pause>*

Jeanie explains there are twenty-eight more red buttons than orange buttons because the smaller number is always subtracted from the larger number. So she got nine minus one equals eight in the ones place and three minus one equals two in the tens place. *<pause>*

Explain why Jeanie's reasoning is incorrect. Find how many more red buttons than orange buttons she has. *<pause>*
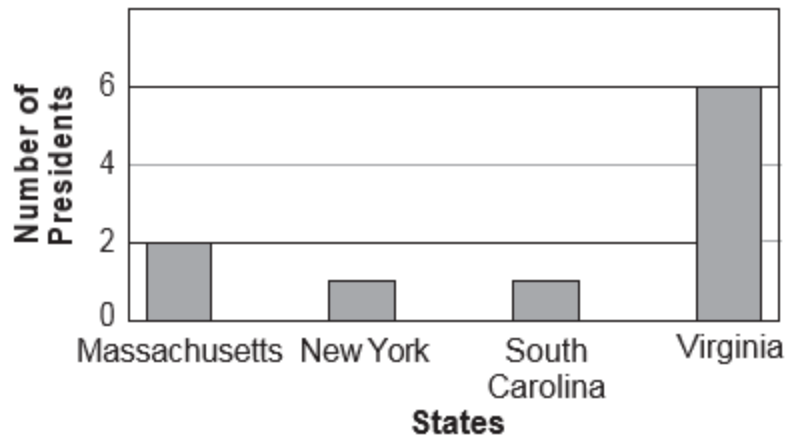
Enter your answer and your explanation in the box provided. *<pause>*

Use the information provided to answer Part A and Part B for question 13.

Question 13.

The first ten presidents of the United States were born in four states. The bar graph shows the number of presidents born in each state. *<pause>*

Presidents' States of Birth *<pause>*

The *y*-axis is labeled, "Number of Presidents" with numbers that range from zero to six, in increments of two. The *x*-axis is labeled, "States" with bars labeled, "Massachusetts," "New York," "South Carolina," "Virginia." *<pause>*

Part A *<pause>*

How many more presidents were born in Virginia than in New York? *<pause>*

Enter your answer in the box. *<pause>*

Part B *<pause>*

What is the difference between the number of presidents born in Massachusetts and the number of presidents born in New York and South Carolina together? *<pause>*

Enter your answer in the box. *<pause>*

Question 14.

Mr. Haley bought a total of thirty-six pictures. The pictures are only sold in packages. Each package came with four small pictures, three medium pictures, and two large pictures. *<pause>*

How many pictures were in each package? Show your work. *<pause>*

How many packages did he buy? Show your work. *<pause>*

Enter your answers and your work in the box provided. *<pause>*

STOP

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Session 2

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6.   See below for an example on how to correctly complete an answer grid. *<pause>*

To answer six hundred thirty-two in a question, fill in the answer grid as shown below in your test booklet. *<pause>*

Question 15.

The number sentences are related facts. *<pause>*

$$5 \times 3 = ?$$

$$? \div 3 = 5$$

Five times three equals question mark. *<pause>*

Question mark divided by three equals five. *<pause>*

What is the missing number? *<pause>*

A.   Two
B.   Eight
C.   Fifteen
D.   Twenty

Question 16.

A store has two different-sized fish tanks. One fish tank holds two hundred eighteen liters of water, and the other fish tank holds one hundred forty-five liters of water. What is the total number of liters for the two fish tanks? *<pause>*

A.   One hundred thirty-three liters
B.   One hundred seventy-three liters
C.   Three hundred fifty-three liters
D.   Three hundred sixty-three liters

Question 17.

Which **three** statements can be represented by the expression twenty-four divided by four? *<pause>*

A.   Jake makes twenty-four muffins. He gives away four muffins.

B.   Collin has twenty-four toy trucks. He sorts them into groups of four trucks each.

C.   Amira has twenty-four trading cards. She puts them into piles containing four cards each.

D.   Rosemary puts twenty-four stickers in each book. She uses enough stickers to fill four books.

E.   Steven fills a new bookshelf with twenty-four books. He puts the same number of books on each of the four shelves.

Question 18.

Which expressions are equal to the given expression? *<pause>*

$$157 + 748$$

One hundred fifty-seven plus seven hundred forty-eight *<pause>*

Select the **three** correct answers. *<pause>*

A.   One hundred fifty plus seven hundred fifty-five

B.   Two hundred plus seven hundred

C.   Ninety plus five

D.   Nine hundred plus five

E.   Parenthesis one hundred sixty plus seven hundred fifty parenthesis minus parenthesis three plus two parenthesis

F.   Parenthesis nine plus one hundred parenthesis plus parenthesis zero plus ten parenthesis plus parenthesis five plus one parenthesis

Question 19.

Select the equation that is true when the number eight is put into the box. *<pause>*

A.   Sixty-four divided by blank equals eight
B.   Four times four equals blank
C.   Three times blank equals twenty-seven
D.   Blank divided by two equals two

Question 20.

Gwen pours about three liters of water into a container. *<pause>*

Which arrow shows about how much water Gwen poured into the container? *<pause>*
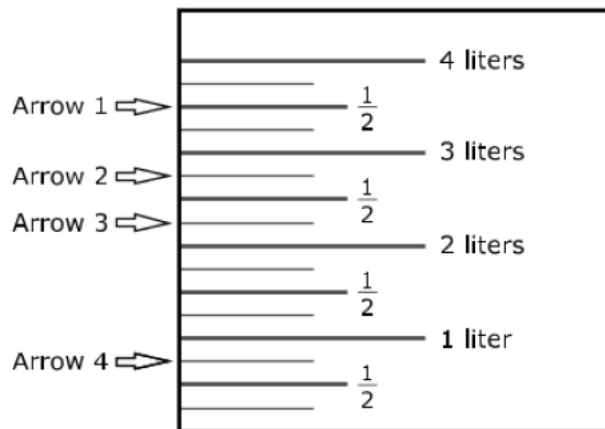
The labels to the left of the diagram, from top to bottom, are: Arrow one, Arrow two, Arrow three, Arrow four. *<pause>*

The labels on the diagram are four liters, one-half, three liters, one-half, two liters, one-half, one liter, one-half. *<pause>*

A.   Arrow 1
B.   Arrow 2
C.   Arrow 3
D.   Arrow 4

For the answer choices in this question, please sign or read only the letters A, B, C, D, E, F.

Question 21.

Which **three** shapes are quadrilaterals? *<pause>*

A.
B.
C.
D.
E.
F.

Question 22.

A brick path has ten rows of four bricks. How many bricks are in the path? *<pause>*

Enter your answer in the box. *<pause>*

Question 23.

Connie solved the math problem shown. *<pause>*

$$40 \div 8 = ?$$

Forty divided by eight equals question mark. *<pause>*

Which equation can Connie use to check her answer? *<pause>*

A.   Eight plus question mark equals forty
B.   Forty plus eight equals question mark
C.   Eight times question mark equals forty
D.   Eight times forty equals question mark

Question 24.

Mr. Caden builds a fence around his rectangular backyard that is eight meters long and seven meters wide. *<pause>*

What is the perimeter, in meters, of the backyard? *<pause>*

Enter your answer in the box. *<pause>*

Question 25.

Part A *<pause>*

Freda buys horse food in twenty-kilogram bags. Her horse eats eight bags of horse food per month. *<pause>*

How much horse food, in kilograms, does Freda's horse eat in one month? *<pause>*

Enter your answer in the box. *<pause>*

Part B *<pause>*

Freda's horse has a mass of seven hundred eighty-two kilograms. Kurt's pony has a mass of three hundred fifty-nine kilograms. How much more mass, in kilograms, does Freda's horse have than Kurt's pony? *<pause>*

Enter your answer in the box. *<pause>*

Question 26.

Mia placed point *P* on the number line. *<pause>*

A number line is shown. The numbers below the number line are zero, one. The point on the number line is *P*. *<pause>*

- Give the value of the number *P* as a fraction. *<pause>*
- What does the denominator of your fraction represent on the number line? *<pause>*
- What does the numerator of your fraction represent on the number line? *<pause>*

Enter your answer and your explanation in the box provided. *<pause>*

For the answer choices in this question, please sign or read only the letters A, B, C, D, E.

Question 27.

Which shapes are divided into thirds? *<pause>*

Select the **three** correct answers. *<pause>*

A.
B.
C.
D.
E.

For the answer choices in this question, please sign or read only the letters A, B, C, D.

Question 28.

Which rectangle has an area of twenty-four square units? *<pause>*
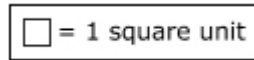
□ = 1 square unit

Box equals one square unit. *<pause>*

A.
B.
C.
D.

Question 29.

Andre visits the library. It takes Andre twenty-six minutes to walk from his house to the library. He stays at the library forty-five minutes. His mother drives him home, which takes fifteen minutes. How many more minutes does Andre spend at the library than traveling to and from the library? *<pause>*

Show all the steps for solving the problem. Explain each step and give the final answer. *<pause>*

Enter your answer, your work, and your explanation in the box provided. *<pause>*

STOP

You have come to the end of Session 2 of the test. *<pause>*

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Session 3

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6. See below for an example on how to correctly complete an answer grid. *<pause>*

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Question 30.

Ava uses stickers to decorate picture frames. She has a total of sixty stickers. She uses ten stickers on each picture frame. *<pause>*

When she uses all of her stickers, how many picture frames does Ava decorate? *<pause>*

Enter your answer in the box. *<pause>*

Question 31.

The clocks show when Jemma started and finished her homework. *<pause>*
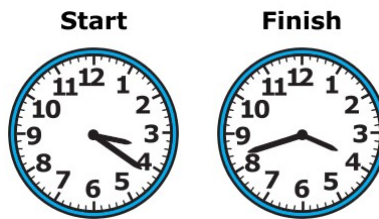
The clocks are labeled "Start" and "Finish." *<pause>*

Which statements are true? *<pause>*

Select the **three** correct answers. *<pause>*

A.   Jemma started her homework at three twenty-one.
B.   Jemma spent forty-two minutes on her homework.
C.   Jemma finished her homework at four forty-two.
D.   Jemma spent twenty-one minutes on her homework.
E.   Jemma started her homework at four seventeen.
F.   Jemma finished her homework at three forty-two.

Question 32.

A teacher bought eight packages of pencils. There were ten pencils in each package. What is the total number of pencils the teacher bought? *<pause>*

Enter your answer in the box.

Question 33.

$$\frac{2}{6} < \square$$

Two-sixths is less than blank. *<pause>*

Select the **three** fractions that make this comparison true. *<pause>*

A. Three-sixths
B. Two-eighths
C. Two-fourths
D. Two-thirds
E. One-sixth

Question 34.

Which problem can be solved using the expression three times four? *<pause>*

A. A house has three rooms on the first floor and four rooms on the second floor. How many total rooms does the house have?

B. A group of four friends shares three large pizzas. How much pizza does each friend get?

C. A shopping center has three floors, and each floor has four stores. How many total stores does the shopping center have?

D. A group of friends spends four dollars on French fries and three dollars on drinks. How much do they spend on food and drinks?

For the answer choices in this question, please sign or read only the letters A, B, C, D.

Question 35.

Which number line shows the correct location of the number five-thirds? *<pause>*

A.
B.
C.
D.

Question 36.

Which equations are true? *<pause>*

Select the **three** correct answers. *<pause>*

A. Seven divided by seven equals zero.
B. Three times four equals twelve.
C. Ten divided by five equals five.
D. Sixteen divided by two equals eight.
E. Zero times six equals zero.

Question 37.

The patio is in the shape of a rectangle with a width of eight feet and a length of nine feet. What is the area, in square feet? *<pause>*

Enter your answer in the box. *<pause>*

Question 38.

Which **three** comparisons are true? *<pause>*

A. One-third equals three-sixths
B. Three-fourths equals six-eighths
C. Four-eighths equals one-half
D. One-fourth equals four-eighths
E. Four-sixths equals two-thirds

Question 39.

Janell has eight photos on one page of an album. She has four photos on each of the other nine pages. How many photos are in Janell's album? *<pause>*

Enter your answer in the box. *<pause>*

Question 40.

Select the **two** fractions that are equivalent to one. *<pause>*

A. A fraction with numerator three and denominator one
B. Two-halves
C. Four-thirds
D. Six-sixths
E. One-eighth

Question 41.

Part A *<pause>*

Fred has thirty-six stuffed animals that he will give to nine different friends. He will give an equal number of stuffed animals to each friend. Fred uses the equation thirty-six divided by nine equals question mark to find how many stuffed animals he will give to each friend. *<pause>*

He thinks the question mark equals three. Explain why he is wrong. *<pause>*

Enter your explanation in the box provided.

Part B *<pause>*

Find the correct answer using Fred's equation. *<pause>*

Enter your answer in the box provided.

Part C *<pause>*

How would you use multiplication to find the number of stuffed animals Fred gives each friend? *<pause>*

Enter your answer in the box provided. *<pause>*

Use the information provided to answer Part A through Part D for question 42.

Question 42.

The Lions and Bulldogs played a basketball game. The scoreboard is shown. *<pause>*

Scoreboard			
	1st Half	**2nd Half**	**Score**
Lions	28	35	
Bulldogs	32	29	

The title of the table is "Scoreboard." The columns are labeled "First Half," "Second Half," and "Score." *<pause>*

Lions, twenty-eight, thirty-five. *<pause>*

Bulldogs, thirty-two, twenty-nine. *<pause>*

Part A *<pause>*

How many total points did the Lions score? *<pause>*

A.   Fifty-one
B.   Fifty-three
C.   Sixty-one
D.   Sixty-three

Part B *<pause>*

How many total points did the Bulldogs score? *<pause>*

A.   Fifty-one
B.   Fifty-three
C.   Sixty-one
D.   Sixty-three

Part C *<pause>*

When the first half ended, how many more points did the Bulldogs have than the Lions? *<pause>*

Enter your answer in the box. *<pause>*

Part D *<pause>*

The top two scorers for the Lions scored twenty-five points and twelve points. *<pause>*

How many points did the rest of the team score? *<pause>*

Show the steps you used to solve the problem. *<pause>*

Enter your answer and your work in the box provided. *<pause>*

For the answer choices in this question, please sign or read only the letters A, B, C, D.

Question 43.

Which circle is divided into eight equal parts and has one-eighth **shaded**? *<pause>*

Each answer option shows a figure. Above the figure is the title, "Circle." *<pause>*

A.
B.
C.
D.

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