

LEAP 2025 Grade 6 Mathematics Practice Test Answer Key



This document contains the answer keys and rubrics for the LEAP 2025 Grade 6 Mathematics Practice Test.

	Session 1					
Task	Task	Value	Кеу	Alignment		
#	Туре	(points)		_		
1	I	1	D	6.NS.A.1		
2	I	1	А, В, Е	6.EE.A.4		
3	I	1	For every 4 v mystery books checked out, 3 v nonfiction books were checked out.	6.RP.A.1		
4	I	1	D	6.NS.B.3		
5	I	1	-3.5	6.NS.C.6c		
6	I	1	432	6.NS.B.2		
7	I	1	С	6.NS.C.6a		
8	I	1	В	6.NS.B.4		
9	I	1	D, E	6.SP.A.1		
10	I	1	А	6.EE.B.6		
11	Ι	1	Movie Lengths	6.SP.B.4		

	Session 1						
Task #	Task Type	Value (points)		Кеу		Alignment	
				Above Freezing	Below Freezing		
			0.5° C				
			-13° C				
12	I	1	1	100° C			6.NS.C.5
			5.5° C	A			
			−2.25° C		 Image: A start of the start of		
13		1	1668.2		·,	6.NS.B.2	
14	I	1	D			6.EE.A.1	
15	I	1	54			6.RP.A.2	
16	I	1	-4			6.NS.C.6c	
17	I	1	9			6.NS.C.8	
18	Ι	1	B, D			6.EE.A.4	
19	I	1	85.104			6.NS.B.3	
20	I	1	В			6.NS.B.3	

	Session 2			
Task #	Task Type	Value (points)	Кеу	Alignment
21	I	1	В	6.EE.A.2a
22	I	1	30	6.RP.A.3c
23	I	1	The ribbon costs \$0.008 v per centimeter v.	6.RP.A.3d
24	I	1	В	6.EE.B.5
25	I	1	164340	6.EE.A.2c
26	I	1	0.008	6.EE.A.1
27		3	rubric	LEAP.III.6.3 (6.RP.A.3)
28	I	2	Part A: 90 Part B: 24	6.RP.A.3c
29	I	2	Part A: A, B, E, G Part B: 16	6.G.A.3
30	11	4	rubric	LEAP.II.6.9 (5.NBT.A.1, 5.NBT.A.2)

	Session 2				
Task #	Task Type	Value (points)	Кеу	Alignment	
31	111	3	Part A: rubric Part B: rubric	LEAP.III.6.1 (6.RP.A.3b, 6.EE.A.2a, 6.EE.A.2c, 6.EE.B.6)	
32	II	3	Part A: rubric Part B: rubric	LEAP.II.6.4 (6.NS.C.6a, 6.NS.C.6c)	

			Session 3	
Task	Task	Value	Кеу	Alignment
#	Туре	(points)		Anginnent
33	I	1	6.75	6.RP.A.3c
34	Ι	1	Trees Planted in the Park	6.RP.A.3a
35		1	0.25	6.RP.A.3d
36	I	1	B, C	6.EE.A.2a
37	П	3	rubric	LEAP.II.6.7
		Ŭ		(6.EE.A.4)
38	I	2	Part A: t x x 8 x = 39.60 x Part B: 4.95	6.EE.B.7
39	I	1	11	6.EE.A.2c

	Session 3				
Task #	Task Type	Value (points)	Кеу	Alignment	
40	I	2	Part A: 52 Part B: 8	6.RP.A.3b	
41	Π	4	rubric	LEAP.II.6.3 (6.NS.A.1)	
42	I	1	В	6.EE.B.5	
43	111	6	Part A: rubric Part B: rubric	LEAP.III.6.2 (5.MD.A.1, 5.MD.B.2, 5.NF.A.2, 5.NF.B.6)	

RUBRICS

	Task # 27
Score	Description
3	 Student response includes the following 3 elements: Modeling component: 2 points Models a strategy for developing a reasoned estimate for an appropriate length and width of each cereal bar, including explaining assumptions Models a strategy for determining the amount each cereal bar will cost Megan to make
	 Computation component: 1 point Amount each cereal bar will cost based on modeling strategy
	Sample Student Response: I assume that each bar could be 2 inches by 4 inches. This is a reasonable size for a cereal bar and it easy enough to hold and does not appear to be too large a serving size. The cereal bar can also be cut so that all cereal bars are the same size and shape since 24 inches and 16 inches can be evenly divided by 2 inches and 4 inches.
	For the 1 pan of bars cut so each bar is 2 inches by 4 inches, there would be 6 rows of bars $(24 \div 4)$ and 8 bars in each row $(16 \div 2)$. Altogether, that would make 48 bars for each pan. The amount spent on ingredients is \$9.85, so the amount each cereal bar will cost Megan to make is \$9.85 ÷ 48, which is \$0.205 or about \$0.21.
	 Notes: Other reasoned estimates are possible. As long as the modeling steps are valid, credit should be awarded. The student may receive a combined total of 2 points if the modeling processes are correct but the student makes one or more computational errors resulting in incorrect answers. The student may receive a total of 1 point if he/she computes the correct answer but shows no work or insufficient work to indicate a correct
	modeling process.
2	Student response includes 2 of the 3 elements.
1	Student response includes 1 of the 3 elements.
0	Student response is incorrect or irrelevant.

	Task #30		
Score	Description		
4	Student response includes the following 4 elements:		
	Reasoning component: 2 points		
	 Correctly explains why Pattern A is incorrect 		
	 Correctly explains why Pattern B is incorrect 		
	Computation component: 2 points		
	 Correct values for Pattern A 		
	 Correct values for Pattern B 		
	Sample Student Response:		
	The student added zeros to the right of the number, instead of moving the number up one place value.		
	The student added zeros to the left of the decimal portion of the number, instead of moving the number down one place value.		
	For pattern A		
	$3.675 \times 10 = 36.75$		
	3.675 × 100 = 367.5		
	3.675 × 1,000 = 3,675		
	For Pattern B		
	$3.675 \times 0.1 = 0.3675$		
	$3.675 \times 0.01 = 0.03675$		
	$3.675 \times 0.001 = 0.003675$		
	Note: Other valid reasoning exists. As long as the student explains the flaw in the		
	provided work, credit should be awarded.		
3	Student response includes 3 of the 4 elements.		
2	Student response includes 2 of the 3 elements.		
1	Student response includes 1 of the 3 elements.		
0	Student response is incorrect or irrelevant.		

	Task #31
	Part A
Score	Description
1	Student response includes the following element:
	Modeling component: 1 point
	 Correct expression that represents the total amount of money
	raised
	Commiss Student Desnenses
	Sample Student Response: 15x
	15%
	Note: Any valid equivalent expression can receive credit.
0	Student response is incorrect or irrelevant.
	Part B
Score	Description
2	Student response includes the following 2 elements:
	Modeling component: 1 point
	 Shows or explains a correct process to find the difference
	Computation component: 1 point
	 Correct answer, 145
	Sample Student Response:
	$15 \times 43 = 645$, and $645 - 500 = 145$
	OR
	Using my expression, I multiplied 43 by \$115 to get a total of \$645 raised. I then
	subtracted \$500 from \$645 to get \$145 for the amount that the club exceeded its
	goal.
	Notes:
	• The student may receive 1 point for Part B if the modeling process is
	correct but the student makes one or more computational errors resulting in incorrect answers.
	 The student may receive 1 point for Part B if he or she computes the
	correct answers but shows no work or insufficient work to indicate a
	correct modeling process.
	 If a student writes an incorrect model and answers the remaining prompts
	based on the model, he or she can receive 1 point for computation but no
	points for modeling.
1	Student response includes 1 of the 2 elements.
0	Student response is incorrect or irrelevant.

	Task #32
	Part A
Score	Description
2	Student response includes the following 2 elements:
	Reasoning component: 1 point
	 Correct work shown or explanation given using the number line
	Computation component: 1 point
	• Correct distance of each point from Q (0.3 for R and 0.6 for P)
	Sample Student Response:
	Point R is 0.3 unit from point Q , because there are 3 spaces of 0.1 between them
	on the number line.
	Point <i>P</i> is 0.6 unit from point <i>Q</i> , because there are 6 spaces of 0.1 between them on the number line.
1	
1 0	Student response includes 1 of the 2 elements.
0	Student response is incorrect or irrelevant. Part B
Score	
1	Description Student regresses includes the following elements
1	Student response includes the following element:
	Reasoning component: 1 point Correct our langtion of how to find point 5 on the number line
	 Correct explanation of how to find point S on the number line
	Sample Student Response:
	Since point Q is at 0 and since point S is the same distance from point Q as point R
	but in a different location, it must be on the opposite side of point Q. Points R and
	S are on opposite sides of 0 on the number line, so their locations should have
	opposite signs. Since point <i>R</i> is located at 0.3, point <i>S</i> must be located at -0.3.
	Note: Point <i>S</i> can also be located at 0.3 for credit with a valid explanation.
0	Student response is incorrect or irrelevant.

	Task #37
Score	Description
3	Student response includes the following 3 elements:
	Reasoning component: 2 points
	 Correct explanation of why Brianna's thinking is incorrect
	 Correct explanation of how to determine which expressions are
	equivalent
	Computation component: 1 point
	 Identifies expressions A and C as equivalent
	Sample Student Response: Brianna only checked the value of each expression for one substitution of x . To check which expressions are equivalent, I need to check that they are the same value for any substitution of x . Since expressions A and C are bot equivalent to the expression $6x - 4$, they will be equivalent for any substitution of x , so they are equivalent.
2	Student response includes 2 of the 3 elements.
1	Student response includes 1 of the 3 elements.
0	Student response is incorrect or irrelevant.

	Task #41
Score	Description
4	Student response includes the following 4 elements:
	Reasoning component: 3 points
	 Correct explanation of how to find the number of sheets in a stack using the ruler
	• Correct expression or equation that can be used to find the number of sheets, $2\frac{1}{4} \div \frac{3}{16}$ or equivalent
	 Correct explanation of how expression relates to use of the ruler
	Computation component: 1 point
	 Correct number of sheets of cardboard in a stack, 12
	Sample Student Response:
	To find the number of sheets in a stack using the ruler, you start at $2\frac{1}{4}$ inches on
	the ruler. Then you can mark off groups of $\frac{3}{16}$. This is 3 of the 16ths marks on the
	ruler. Then you can count the number of groups. There were 12 groups, so there are 12 sheets in a stack.
	An expression that represents this is $2\frac{1}{4} \div \frac{3}{16}$. This relates to using the ruler
	because you are starting with $2\frac{1}{4}$ and dividing by $\frac{3}{16}$, which is really finding how
	many groups of $\frac{3}{16}$ there are in $2\frac{1}{4}$. When you divide, you will get 12, which means
	there are 12 groups of $\frac{3}{16}$ in $2\frac{1}{4}$.
3	Student response includes 3 of the 4 elements.
2	Student response includes 2 of the 3 elements.
1	Student response includes 1 of the 3 elements.
0	Student response is incorrect or irrelevant.

Task #43		
Part A		
Score	Description	
3	Student response includes the following 3 elements:	
	Computation component: 1 point	
	 Correct total number of cups of water, 3 	
	Modeling component: 2 points	
	 Correct expression using addition AND multiplication 	
	 Correct process for evaluating the expression written 	
	Sample Student Response: 3 (cups)	
	$6 \times \frac{1}{8} + 2 \times \frac{1}{4} + 3 \times \frac{3}{8} + 1 \times \frac{5}{8}$ $6 \times \frac{1}{8} + 2 \times \frac{1}{4} + 3 \times \frac{3}{8} + 1 \times \frac{5}{8} =$	
	$6 \times -+2 \times -+3 \times -+1 \times -=$	
	$\frac{\frac{6}{8} + \frac{2}{4} + \frac{9}{8} + \frac{5}{8} =}{\frac{6}{8} + \frac{4}{8} + \frac{9}{8} + \frac{5}{8} = \frac{24}{8} = 3$	
	Notes:	
	• The student must show operations of addition AND multiplication in order	
	to receive the modeling point. If students only use addition, they do not get the modeling point.	
	 The student must show only one expression to receive this modeling 	
	point.	
	If the student writes an incorrect expression but shows a correct process	
	for evaluating that expression, the student will receive 1 modeling point.	
2	Student response includes 2 of the 3 elements.	
1	Student response includes 1 of the 3 elements.	
0	Student response is incorrect or irrelevant.	

	Task #43
	Part B
Score	Description
3	Student response includes the following 3 elements:
	Computation component: 1 point
	 Correct total number of fluid ounces, 56 fluid ounces
	Modeling component: 2 points
	 Correct process for finding the amount of water in the beaker Correct process for converting gallons and cups to fluid ounces
	Sample Student Response:
	The amount of water in the beaker can be found by adding 3 cups to $\frac{1}{4}$ gallon.
	To convert $\frac{1}{4}$ gallon to fluid ounces, I need to multiply by 128, which is 32 fluid
	ounces. To convert 3 cups to fluid ounces, I need to multiply by 8, which is 24 fluid ounces. The amount of water in the beaker before the water was poured out is 32 + 24 = 56 fluid ounces.
	 Notes: Units are not required to receive credit. The student may receive a combined total of 4 points if the modeling processes are correct but the student makes one or more computational errors resulting in incorrect answers. The student may receive a total of 2 points if he or she computes the correct answers but shows no work or insufficient work to indicate a correct modeling process. The student cannot receive more than 2 points for modeling if the explanations, while sufficient to indicate that the student had a correct process contain nonsense statements, such as ¹/₄ × 128 = 32 + 24 = 56.
2	Student response includes 2 of the 3 elements.
1	Student response includes 1 of the 3 elements.
0	Student response is incorrect or irrelevant.