

LEAP 2025 Grade 5 Mathematics Practice Test Answer Key



This document contains the answer keys and rubrics for the LEAP 2025 Grade 5 Mathematics Practice Test.

	Session 1				
Task #	Task Type	Value (points)	Кеу	Alignment	
1	I	1	65	5.OA.A.1	
2	I	1	The product of $\frac{3}{5}$ and 4 is less than \checkmark 4. The product of $1\frac{1}{2}$ and 2 is greater than \checkmark 2. The product of $\frac{5}{2}$ and $\frac{13}{4}$ is greater than \checkmark $\frac{13}{4}$.	5.NF.B.5a	
3	I	1	В	5.NF.A.2a	
4	I	1	2947994	5.NBT.B.5	
5	I	1	546.208	5.NBT.A.3a	
6	I	1	104	5.MD.C.5b	
7	I	1	С	5.NBT.B.7	
8	I	1	D	5.MD.B.2	
9	I	1	A	5.NF.B.4b	

	Session 1				
Task #	Task Type	Value (points)	Кеу	Alignment	
10	I	1	quadrilaterals are always parallelograms are always rhombuses rectangles are always squares The positions of rectangles and rhombuses may be switched.	5.G.B.4	
11	I	1	A, D	5.NBT.A.4	
12	III	3	Part A: rubric Part B: rubric Part C: 31.25*	LEAP.III.5.1 (5.NBT.B.7)	
13	I	1	В	5.NBT.B.6	
14	I	2	Part A: C Part B: 75	5.MD.C.5c	
15	II	4	rubric	LEAP.II.5.6 (5.NBT.B.6)	

	Session 2				
Task	Task	Value	Key	Alignment	
#	Type	(points)	ncy	/ III grillione	
16	I	1	B, C, D	5.G.B.3	
17	I	1	D	5.NF.A.1	
18	I	1	С	5.G.A.1	
19	I	1	A	5.OA.B.3	
20	I	1	B, E	5.NF.A.2b	
21	ĺ	1	С	5.NF.A.1	
22	Ī	1	0.525	5.NBT.B.7	

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 $^{^{\}ast}$ This is not machine-scored because the answer is dependent on the student response to part B.

	Session 2				
Task #	Task Type	Value (points)	Кеу	Alignment	
23	I	2	Part A: D Part B: A	LEAP.I.5.2 (5.NF.A)	
24	Ш	3	rubric	LEAP.II.5.8 (5.NF.A.2)	
25	I	1	A	5.NF.B.4b	
26	1	1	27	5.NF.B.7c	
27	I	1	4.408 > v four and forty-eight thousandths six hundred ninety-one and five hundredths > v $6 \times 100 + 9 \times 10 + 1 \times 1 + 8 \times \frac{1}{1,000}$	5.NBT.A.3b	
28	I	2	Part A: 480 Part B: 3	5.MD.A.1	
29	III	3	rubric	LEAP.III.5.1 (5.NF.B.4c, 5.NF.B.4d)	

	Session 3					
Task #	Task Type	Value (points)		Key		Alignment
30	I	1	2.7			5.NBT.B.7
31	I	1	D			5.NF.B.3
32	I	1	С			5.NF.B.4
33	I	1	Α			5.NF.B.6
34	I	1	76531			5.NBT.B.5
35	I	1	D			5.NF.B.3
36	I	1	В			5.MD.C.4
37	I	1	В		5.NBT.A.1	
38	I	1	3	3		5.NBT.A.2
39	I	1	5120	5120		5.MD.C.5b
40	ı	1	the sum of 2 and 4 subtracted from 9 9 - (2 + 4)	add 2 and 4, then subtract 9 2 + 4 - 9	subtract 2 from 9, then add 4 9 – 2 + 4	5.OA.A.2

	Session 3				
Task #	Task Type	Value (points)	Кеу	Alignment	
41	I	1	Point A Point B Point C 1 2 3 4 5 6 7 8	5.G.A.1	
42	III	6	Part A: rubric Part B: rubric Part C: 3869 [†]	LEAP.III.5.2 (4.MD.A.3)	
43	II	3	rubric	LEAP.II.5.7 (5.NF.B.7a, 5.NF.B.7b)	

 † This is not machine-scored because the answer is dependent on the student response to part B.

RUBRICS

	Task #12			
	Part A			
Score	Description			
1	Student response includes the following element.			
	Modeling component: 1 point			
	 Correct expression for the cost of the bracelet 			
	Sample Student Response:			
	$0.05 \times 25 + 0.45 \times 4$			
	Note: Any valid expression can receive credit.			
0	Student response is incorrect or irrelevant.			
_	Part B			
Score	Description			
1	Student response includes the following element.			
	Modeling component: 1 point			
	 Correct expression for the cost of the necklaces 			
	Canada Chudant Bassassas			
	Sample Student Response:			
	$(0.05 \times 48 + 0.45 \times 1) \times 2$			
	Note: Any valid expression can receive credit			
0	Note: Any valid expression can receive credit. Student response is incorrect or irrelevant.			
0	Part C			
Score	Description			
1	Student response includes the following element.			
_	Computation component: 1 point			
	Computation component: I point Correct amount of money Katie had left after purchasing supplies,			
	\$31.25			
	751.25			
	Note: If a mistake is made in Part A and/or Part B but carried through to Part C			
	correctly, credit can be given for Part C.			
0	Student response is incorrect or irrelevant.			

	Task #15	
Score	Description	
4	Student response includes the following 4 elements:	
	Computation component: 2 points	
	 Correct numbers for each letter in the model 	
	 Correct value for quotient, 873 remainder 2 	
	Reasoning component: 2 points	
	 Correct explanation for finding the numbers in the model 	
	 Correct explanation or work to show multiplication check 	
	Sample Student Response:	
	The value of M is 6,400 because $8 \times 800 = 6,400$. The value of N is 70	
	because $8 \times 70 = 560$. Then $6,400 + 560 = 6,960$. So there are 26 left.	
	Since $8 \times 3 = 24$, the value of <i>P</i> is 3 and the value of <i>Q</i> is 24. There are 2 left over, so	
	R is 2.	
	The value of 6,986 \div 8 is 873 with a remainder of 2. To check my multiplication, first multiply 873 by 8. Then add 2 to the product.	
	873 × 8 = 6,984	
	6,984 + 2 = 6,986	
	Note: If a student has a computation error, points can still be awarded for correct	
	reasoning.	
3	Student response includes 3 of the 4 elements.	
2	Student response includes 2 of the 4 elements.	
1	Student response includes 1 of the 4 elements.	
0	Student response is incorrect or irrelevant.	

	Task #24	
Score	Description	
3	Student response includes the following 3 elements:	
	Reasoning component: 2 points	
	o Identification of Leah's mistake	
	O Correct work shown for adding $\frac{2}{3} + \frac{1}{2} + \frac{5}{12}$	
	Computation component: 1 point	
	O Correct answer, $\frac{19}{12}$ or equivalent	
	Sample Student Response:	
	Leah used the wrong numerators. To add fractions with different denominators, you have to find a common denominator. Then you convert each fraction to an equivalent fraction using the common denominator. Then you add the numerators	
	together and put the result as the numerator. $\frac{2}{3} + \frac{1}{2} + \frac{5}{12}$	
	$=\frac{8}{12}+\frac{6}{12}+\frac{5}{12}$	
	$=\frac{8+6+5}{12}$	
	$=\frac{19}{12}$	
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 #29
Score	Description
3	Student response includes the following 3 elements: • Modeling component: 2 points
	 Correct explanation of how to use the model to find the size of each section of the garden. Correct use of common denominators to write an equation to find the difference between the two sections of the garden. Computation component: 1 point Correct answer, 1/16
	Sample Student Response: Since there are 16 squares in the first half of the model and 3 are shaded, this means that the area of the carrot section is $\frac{3}{16}$ square yard. Since there are 4 squares in the second half of the model and 1 is shaded, this means that the area of the pea section is $\frac{1}{4}$ square yard. $\frac{4}{16} - \frac{3}{16} = \frac{1}{16}$ $\frac{1}{16}$ square yard
	 Notes: A variety of explanations are possible. As long as the explanation shows a clear understanding of using the model to find the size of each section, credits should be awarded. A variety of equations are possible. As long as the equation can be used to represent the problem, credit should be awarded. If a student uses the model for peas and divides it into sixteenths in order to use the common denominator, the student should be awarded both modeling points since the modeling for two steps was completed in one step.
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 #42				
	Part A				
Score	Description				
2	Student response includes the following 2 elements:				
	Computation component: 1 point				
	o Correct answer, 486				
	Modeling component: 1 point				
	 Correct equation to model the area 				
	Sample Student Response:				
	$18 \times 27 = g$				
	g = 486 square feet				
1	Student response includes 1 of the 2 elements.				
0	Student response is incorrect or irrelevant.				
	Part B				
Score	Description				
3	Student response includes the following 3 elements:				
	Modeling component: 3 points				
	Correct expression to represent the cost of the fence and gate				
	Correct explanation of the expression				
	Correct work or explanation to find the total cost				
	Sample Student Response:				
	43 × (18 + 18 + 27 + 27 – 3) + 128				
	(18 + 18 + 27 + 27 - 3) is needed to find the perimeter of the lawn minus the gate to				
	find the length of fence needed				
	The length of the fence is multiplied by the cost of the fence and then the cost of the				
	gate is added to get the total cost.				
	Note: The term <i>perimeter</i> does not have to be used.				
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.				
	Part C				
Score	Description				
1	Student response includes the following element:				
	Computation component: 1 point				
	o \$3,869				
	Note: If a mistake is made in Part B but carried through to Part C correctly, credit can				
	be given for Part C.				
0	Student response is incorrect or irrelevant.				
	Total Control of the				

	Task #43		
Score	Description		
3	Student response includes the following 3 elements:		
	Reasoning component: 2 points		
	o Correct label for point A, $\frac{1}{2}$ hour or equivalent		
	 Correct explanation of how to use the number line to solve the problem 		
	Computation component: 1 point		
	O Correct fraction of an hour spent per chore, $\frac{1}{10}$ or equivalent		
	Sample Student Response:		
	Point A should have the label $\frac{1}{2}$ hour.		
	The number line is divided from 0 to $\frac{1}{2}$ in 5 equal sections because there are 5 chores.		
	It would take 10 of these sections to divide the number line from 0 to 1. Each section		
	represents the time she can spend on one chore. So she can spend $\frac{1}{10}$ of an hour on		
	each chore.		
2	Student response includes 2 of the 3 elements.		
1	Student response includes 1 of the 3 elements.		
0	The response is incorrect or irrelevant.		