

M-STEP MATHEMATICS RESPONSE GRID

One method that may be used to capture student responses in mathematics assessments, other than the more widely used multiple-choice format, is a response grid. Response grids will be used in M-STEP paper/pencil assessments for grades 3-8.

Some test questions will require students to record an answer on a response grid in their answer booklets. The student must write their answer to the test question in the boxes at the top of the grid.

Some questions will require students to record an answer on a response grid in their answer booklets. The student must write the answer in the boxes at the top of the grid. Answers may be written by placing the first digit of the answer in the box on the far left, OR, with the last digit of their answer in the answer box at the far right. In other words, answers will be accepted with left or right justification. It is important to remember that students may print only one digit in each box of the top row and they may **not** leave a blank space in the middle of an answer.

After recording the digits of their answer in each box on the top row, students must then fill in the bubble in each column that corresponds with the number in the top box.

An example of the response grid used for grades 3-5 is shown below. The sample shows acceptable responses to

$25 \times 4 = \underline{\quad}$

1	0	0	
0	●	●	0
●	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

OR

	1	0	0
0	0	●	●
1	●	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

The response grid for grades 6-8 works in exactly the same way but includes symbols of diagonal bars and decimal points. Some acceptable responses to the problem: Find an equivalent value to $100/25 = \underline{\quad}$ are shown below.

				4
/	/	/	/	/
●	●	●	●	●
0	0	0	0	0
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	●
5	5	5	5	5
6	6	6	6	6
7	7	7	7	7
8	8	8	8	8
9	9	9	9	9

OR

	4	/	1	
/	/	●	/	/
●	●	●	●	●
0	0	0	0	0
1	1	1	1	●
2	2	2	2	2
3	3	3	3	3
4	4	●	4	4
5	5	5	5	5
6	6	6	6	6
7	7	7	7	7
8	8	8	8	8
9	9	9	9	9

OR

	4	.	0	
/	/	/	/	/
●	●	●	●	●
0	0	0	0	●
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	●	4	4
5	5	5	5	5
6	6	6	6	6
7	7	7	7	7
8	8	8	8	8
9	9	9	9	9

OR

4	.	0		
/	/	/	/	/
●	●	●	●	●
0	0	●	0	0
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	●	4	4	4
5	5	5	5	5
6	6	6	6	6
7	7	7	7	7
8	8	8	8	8
9	9	9	9	9

This page provides sample response grids that can be copied and used for practice with teacher-made tests. To copy the grid, right click on the grid and select copy. The grid can then be copied and pasted into another Word document for creating practice tests for student use.

M-STEP RESPONSE GRID FOR GRADES 3-5

0	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

M-STEP RESPONSE GRID FOR GRADES 6-8

/	/	/	/	/
•	•	•	•	•
0	0	0	0	0
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
5	5	5	5	5
6	6	6	6	6
7	7	7	7	7
8	8	8	8	8
9	9	9	9	9