

Possible Solutions

The model below represents the length and width of a rectangular exercise mat. What is the area of this mat in square meters? Explain how you determined the solution.

- a) I finished covering the mat with square meters. I counted the units and got 54. The area of the mat is 54 square meters.

1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18
19	20	21	22	23	24	25	26	27
28	29	30	31	32	33	34	35	36
37	38	39	40	41	42	43	44	45
46	47	48	49	50	51	52	53	54

- b) I finished covering the mat with square meters making sure there were no overlaps or gaps. I counted the number of square meters in one row and there were 9. I counted the number of rows and there were 6. I used repeated addition to find the total number of square meters.

$$9 + 9 + 9 + 9 + 9 + 9 = 54$$

The area of the mat is 54 square meters.

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

- c) I finished covering the mat with square meters. I counted the number of square meters in one row and there were 9. I skip counted by 9 for each row to find the total number of square meters.

$$9, 18, 27, 36, 45, 54$$

The area of the mat is 54 square meters.

1	2	3	4	5	6	7	8	9
								18
								27
								36
								45
								54