Task card 1 Writing a Linear Function from a W...

The water left in liters changes at a constant rate. After 4 minutes it is 382, and after 8 minutes it is 318. Write an equation for y, the water left in liters, after x minutes.

Task card 2 Writing a Linear Function from a W...

The total cost in dollars changes at a constant rate. After 1 month it is 119, and after 3 months it is 183. Write an equation for y, the total cost in dollars, after x months.

Task card 3 Writing a Linear Function from a W...

The money left on the card in dollars changes at a constant rate. After 1 coffee it is 69, and after 4 coffees it is 54. Write an equation for y, the money left on the card in dollars, after x coffees.

Task card 4 Writing a Linear Function from a W...

The total cost in dollars changes at a constant rate. After 2 months it is 124, and after 6 months it is 224. Write an equation for y, the total cost in dollars, after x months.

Task card 5 Writing a Linear Function from a W...

The battery level in percent changes at a constant rate. After 4 hours it is 66, and after 6 hours it is 52. Write an equation for y, the battery level in percent, after x hours.

Task card 6 Writing a Linear Function from a W...

The height of the sunflower in cm changes at a constant rate. After 3 weeks it is 47, and after 7 weeks it is 71. Write an equation for y, the height of the sunflower in cm, after x weeks.

Task card 7 Writing a Linear Function from a W...

The battery level in percent changes at a constant rate. After 2 hours it is 82, and after 7 hours it is 57. Write an equation for y, the battery level in percent, after x hours.

Task card 8 Writing a Linear Function from a W...

The fare in dollars changes at a constant rate. After 1 mile it is 8, and after 6 miles it is 23. Write an equation for y, the fare in dollars, after x miles.

Task card 9 Writing a Linear Function from a W...

The height of the candle in cm changes at a constant rate. After 2 hours it is 32, and after 5 hours it is 20. Write an equation for y, the height of the candle in cm, after x hours.

Task card 10 Writing a Linear Function from a W...

The total cost in dollars changes at a constant rate. After 1 month it is 55, and after 3 months it is 97. Write an equation for y, the total cost in dollars, after x months.

Task card 11 Writing a Linear Function from a W...

The plane's height in meters changes at a constant rate. After 2 minutes it is 3342, and after 7 minutes it is 2257. Write an equation for y, the plane's height in meters, after x minutes.

Task card 12 Writing a Linear Function from a W...

The charge in dollars changes at a constant rate. After 1 hour it is 119, and after 5 hours it is 279. Write an equation for y, the charge in dollars, after x hours.

Task card 13 Writing a Linear Function from a W...

The battery level in percent changes at a constant rate. After 4 hours it is 81, and after 7 hours it is 72. Write an equation for y, the battery level in percent, after x hours.

Task card 14 Writing a Linear Function from a W...

The total cost in dollars changes at a constant rate. After 3 months it is 104, and after 8 months it is 169. Write an equation for y, the total cost in dollars, after x months.

Task card 15 Writing a Linear Function from a W...

The battery level in percent changes at a constant rate. After 1 hour it is 90, and after 4 hours it is 60. Write an equation for y, the battery level in percent, after x hours.

Task card 16 Writing a Linear Function from a W...

The height of the sunflower in cm changes at a constant rate. After 1 week it is 22, and after 5 weeks it is 46. Write an equation for y, the height of the sunflower in cm, after x weeks.

Task card 17 Writing a Linear Function from a W...

The plane's height in meters changes at a constant rate. After 2 minutes it is 4939, and after 4 minutes it is 4531. Write an equation for y, the plane's height in meters, after x minutes.

Task card 18 Writing a Linear Function from a W...

The amount saved in dollars changes at a constant rate. After 2 weeks it is 59, and after 7 weeks it is 89. Write an equation for y, the amount saved in dollars, after x weeks.

Task card 19 Writing a Linear Function from a W...

The battery level in percent changes at a constant rate. After 4 hours it is 66, and after 8 hours it is 34. Write an equation for y, the battery level in percent, after x hours.

Task card 20 Writing a Linear Function from a W...

The charge in dollars changes at a constant rate. After 2 hours it is 188, and after 5 hours it is 362. Write an equation for y, the charge in dollars, after x hours.

Task card 21 Writing a Linear Function from a W...

The height of the candle in cm changes at a constant rate. After 4 hours it is 24, and after 8 hours it is 8. Write an equation for y, the height of the candle in cm, after x hours.

Task card 22 Writing a Linear Function from a W...

The height of the sunflower in cm changes at a constant rate. After 3 weeks it is 36, and after 6 weeks it is 45. Write an equation for y, the height of the sunflower in cm, after x weeks.

Task card 23 Writing a Linear Function from a W...

The battery level in percent changes at a constant rate. After 3 hours it is 70, and after 7 hours it is 30. Write an equation for y, the battery level in percent, after x hours.

Task card 24 Writing a Linear Function from a W...

The total cost in dollars changes at a constant rate. After 3 months it is 99, and after 7 months it is 187. Write an equation for y, the total cost in dollars, after x months.

Writing a Linear Function from a Word Problem Task Cards

Recording sheet · Grade 8 · Write an equation in the form y = mx + b for each situation.

Scan to check your answers

Name: _____ Date: _____

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24

Writing a Linear Function from a Word Problem Task Cards: Answer Key

Grade 8 · Hard

The answers online

1. y = -16x + 446	**2.** y = 32x + 87	**3.** y = -5x + 74
4. y = 25x + 74	**5.** y = -7x + 94	**6.** y = 6x + 29
7. y = -5x + 92	**8.** y = 3x + 5	**9.** y = -4x + 40
10. y = 21x + 34	**11.** y = -217x + 3776	**12.** y = 40x + 79
13. y = -3x + 93	**14.** y = 13x + 65	**15.** y = -10x + 100
16. y = 6x + 16	**17.** y = -204x + 5347	**18.** y = 6x + 47
19. y = -8x + 98	**20.** y = 58x + 72	**21.** y = -4x + 40
22. y = 3x + 27	**23.** y = -10x + 100	**24.** y = 22x + 33