

Practice 7-2

Functions

Use the function rule $y = 5x + 1$. Find each output.

1. $x = 3$

2. $x = -6$

3. $x = 8$

4. $x = 1.5$

5. $x = 0$

6. $x = 30$

7. **Measurement** The function rule $c = 2.54k$ gives the number of centimeters c that are equivalent to k inches. How many centimeters are equivalent to 4 inches? _____

Complete the input-output table for each function.

8. $r = 2t - 1$

Input t	Output r
-2	
0	
2	
4	

9. $k = 0.3n - 2$

Input n	Output k
-10	
-5	
0	
5	

10. **Unit Pricing** Complete the table of input-output pairs for the function $c = \frac{p}{8}$. The variable c represents the unit cost in dollars of a box of 8 granola bars. The variable p represents the price in dollars of a box of 8 granola bars.

Input p (dollars in price)	Output c (dollars in unit price)
4	
3.60	
3.48	

11. **Merchandising** The function $d = 3r + 5.25$ represents the cost in dollars d for a vase of r roses from a flower shop. Make a table of input-output pairs to show the cost for arrangements with 6, 9, and 12 rows.

Input r (number of roses)	Output d (cost of arrangement in dollars)
6	
9	
12	

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