



Objective 1 TEKS A.1.D Review

A.1.D Represent relationships among quantities using concrete models, tables, graphs, diagrams, verbal descriptions, equations, and inequalities.

The relationship among two or more quantities can be represented in a variety of ways, including equations and inequalities, tables, graphs, diagrams, verbal descriptions, and concrete models.

Verbal description A satellite movie service costs \$30 per month plus \$3.99 for each movie viewed.

Equation $c = 30 + 3.99m$

Table

Movies	Cost
0	\$30.00
1	\$33.99
2	\$37.98
3	\$41.97

EXAMPLE

Jerry has \$155. Shirts on sale cost \$20 each. Does the table correctly describe the amount of money d that Jerry has after buying n shirts?

n	d	
0	\$155	← An equation for this situation is $d = 155 - 20n$.
1	\$135	← $155 - 20(0) = 155 - 0 = 155$ ✓
3	\$95	← $155 - 20(1) = 155 - 20 = 135$ ✓
6	\$45	← $155 - 20(3) = 155 - 60 = 95$ ✓
		← $155 - 20(6) = 155 - 120 = 35$ Does not check.

The values in all the rows except the last row are correct. If Jerry buys 6 shirts, he will have \$35 left, not \$45. The table does not correctly describe the amount of money Jerry will have after buying n shirts.

YOU DO IT

Alicia has \$97 in cash. T-shirts are on sale for \$6. Does the table correctly represent how much cash c Alicia will have after buying x T-shirts?

x	c	
0	\$97	← An equation for this situation is $c = 97 - 6x$.
2	\$85	← 1. $97 - 6(0) = 97 - 0 = 97$
4	\$73	← 2. $97 - 6(2) = 97 - 12 = 85$
8	\$49	← 3. $97 - 6(4) = 97 - 24 = 73$
		← 4. $97 - 6(8) = 97 - 48 = 49$

5. Does the table correctly show how much cash Alicia has left? **Yes** _____