LINEAR RELATIONS · GRADE 8

Linear Relations · Grade 8

Answer each question. Write a rule as y = mx + b (leave out the "y =").

Name _____ Date _____ Score _____ / 9

01 Look at the table.

x	0	5	10	15
y	−10	−35	−60	−85

a) What is the rate of change?

b) Write the rule: y =

c) What is x when y = -105?

02 Fill in each blank.

a) Is (5, -21) on the line y = -7x + 14?

b) y = -7x + 2. Find x when y = -68.

c) A line passes through (2, 26) and (5, 50). Write its rule: y =

03 Look at the table.

x	1	3	5	7
y	4	0	−4	−8

a) What is the rate of change?

b) Write the rule: y =

c) What is x when y = -22?

Linear Relations · Grade 8 (Answer Key)

Answer each question. Write a rule as y = mx + b (leave out the "y =").

01 Look at the table.

x	0	5	10	15
y	−10	−35	−60	−85

a) What is the rate of change? **-5**

b) Write the rule: y = **-5x - 10**

c) What is x when y = -105? **19**

02 Fill in each blank.

a) Is (5, -21) on the line y = -7x + 14? **yes**

b) y = -7x + 2. Find x when y = -68. **10**

c) A line passes through (2, 26) and (5, 50). Write its rule: y = **8x + 10**

03 Look at the table.

x	1	3	5	7
y	4	0	−4	−8

a) What is the rate of change? **-2**

b) Write the rule: y = **-2x + 6**

c) What is x when y = -22? **14**