

Graph each of the following and then solve the puzzle. Show all work on a separate sheet of paper.

How Does the Average Man Feel Today?

Complete the table of solutions for each equation. Graph the solutions and draw a line through them. If extended, the line will cross a letter. Write this letter in each box containing the exercise number.

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

$y = -2x + 5$

x	y
5	
-1	
2	
0	

I

E

1

$y = 3x - 2$

x	y
3	
2	
-2	
0	

T

K

5

$y = 7 - 2x$

x	y
2	
-1	
5	
0	

D

G

4

$y = \frac{1}{2}x + 1$

x	y
4	
-6	
-2	
0	

F

S

3

$y = -x - 3$

x	y
4	
-1	
-6	
0	

Y

V

8

$x + 2y = 0$

x	y
6	
-2	
-6	
0	

E

P

7

$x + y = 6$

x	y
1	
4	
-2	
0	

R

N

6

$y = -\frac{2}{3}x + 4$

x	y
3	
-3	
6	
0	

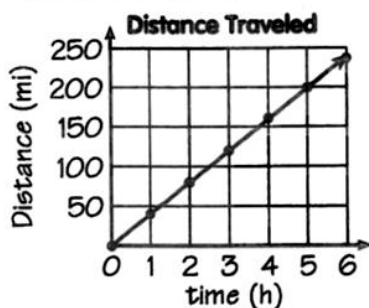
M

W

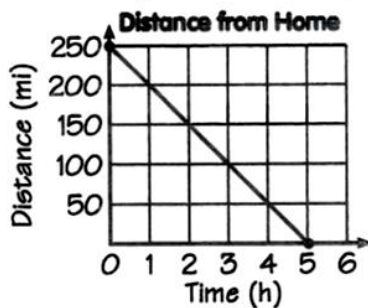
State the rate of change for each graph and then solve the puzzle.

What Does It Take to Win a Tug of War?

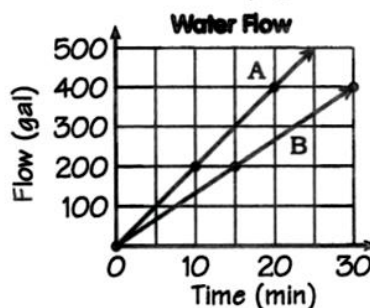
Find the rate of change represented by each line (some answers are rounded). Cross out the letters above each correct answer. Write the remaining letters in the spaces at the bottom of the page.



rate of change: _____

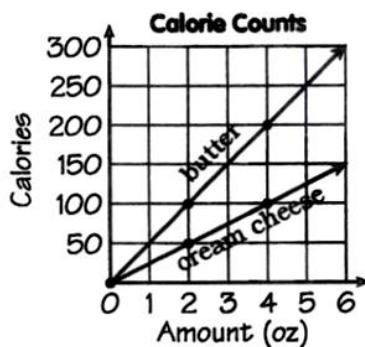


rate of change: _____



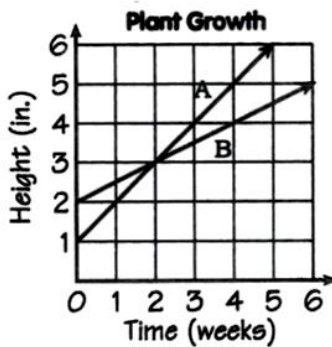
flow rate (A): _____

flow rate (B): _____



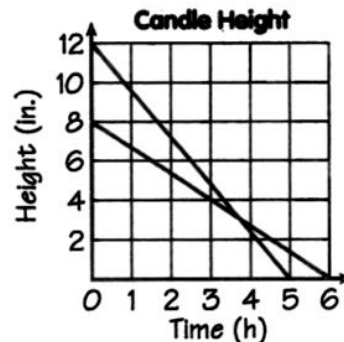
butter: _____

cream cheese: _____



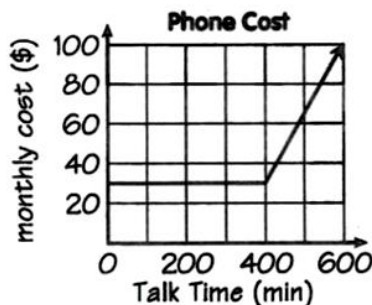
plant A: _____

plant B: _____

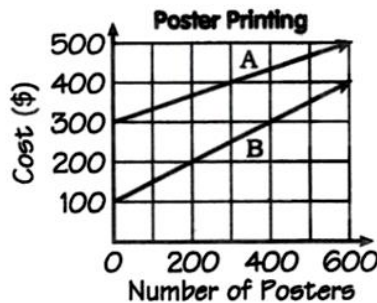


12" candle: _____

8" candle: _____

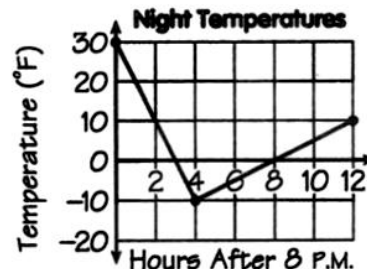


rate for talk time
over 400 min: _____



rate for printer A: _____

rate for printer B: _____



rate for first 4 h: _____

rate for next 8 h: _____

TH 25 cal/oz	GR -10°F/h	AB 4°F/h	E \$0.33/poster	ST 20 gal/min	UN \$0.45/min	EA 0.5 in./wk	CH 40 cal/oz
S 40 mi/h	OF -62 mi/h	LO -2.4 in./h	BI 0.8 in./wk	TU 2.5°F/h	G 35 mi/h	ET \$0.35/min	OO -50 mi/h
J -1.5 in./h	AM \$0.50/poster	IX 50 cal/oz	ER 15 gal/min	PU 1 in./wk	LL -1.33 in./h	KS \$0.40/poster	E 13.3 gal/min