Name: Modeling Data | 8.4

Ready, Set, Go!

www.flickr.com/photos/garryknight/4888370567

Ready

Topic: Linear functions and relationships

Write the explicit linear function for the given information below.

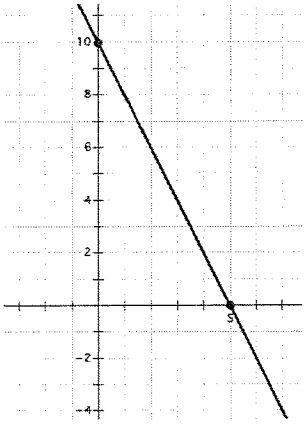
1. (3, 7) (5, 13)

2. Mike earns $11.50 an hour

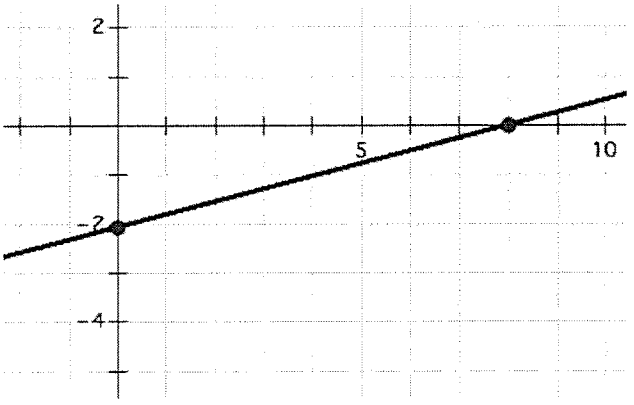
3. (-5, -2) (1, 10)

4. (-2, 12) (6, 8)

5.



6.



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Set

Topic: Relative Frequency Tables

For each two-way table below, create the indicated relative frequency table and also provide two observations with regard to the data.

7. This table represents survey results from a sample of students regarding mode of transportation to and from school.

	Walk	Bike	Car Pool	Bus	Total
Boys	37	47	27	122	233
Girls	38	22	53	79	192
Total	75	69	80	201	425

Create the *relative frequency of row table*. Then provide two observation statements.

	Walk	Bike	Car Pool	Bus	Total
Boys					
Girls					
Total	100%	100%	100%	100%	100%

8. The two-way table contains survey data regarding family size and pet ownership.

	No Pets	Own one Pet	More than one pet	Total
Families of 4 or less	35	52	85	172
Families of 5 or more	15	18	10	43
Total	50	70	95	215

Create the *relative frequency of column table*. Then provide two observation statements.

	No Pets	Own one Pet	More than one pet	Total
Families of 4 or less				100%
Families of 5 or more				100%
Total				100%

9. The two-way table below contains survey data about boys and girls shoes.

	Athletic shoes	Boots	Dress Shoe	Total
Girls	21	35	60	116
Boys	50	16	10	76
Total	71	51	70	192

Create the *relative frequency of whole table*. Then provide two observation statements.

	Athletic shoes	Boots	Dress Shoe	Total
Girls				
Boys				
Total				100%

Go

Topic: One variable statistical measures and comparisons

For each set of data determine the mean, median, mode and range. Then create either a box-and-whisker plot or a histogram.

10. 23, 24, 25, 20, 25, 29, 24, 25, 30

11. 20, 24, 10, 35, 25, 29, 24, 25, 33

12. How do the data sets in problems 10 and 11 compare to one another?

13. 2, 3, 4, 5, 3, 4, 7, 4, 4

14. 1, 1, 3, 5, 5, 10, 5, 1, 14

15. How do the data sets in problems 13 and 14 compare to one another?