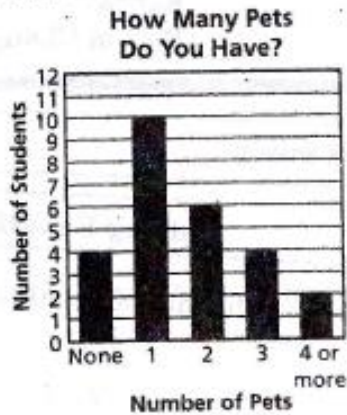


Ratios

9. This bar graph shows the results of a survey about the number of pets that students have.



What is the ratio of the number of students who have no pets to the number of students who have 2 or more pets?

- a. 2:1 c. 2:11
b. 3:1 d. 1:3

Functions and Relationships

10. Which equation describes the relationship between the x and y values in the table below?

x	y
2	8
5	17
10	32
12	38

- a. $y = 4x$ c. $y = 2x + 4$
b. $y = x + 6$ d. $y = 3x + 2$

Writing and Solving Equations

11. Flora and her brother are saving for a trip. Flora has saved \$20 more than 3 times as much as her brother. If Flora has saved \$65, how much has her brother saved?

- a. \$15 c. \$60
b. \$45 d. \$195

Writing and Solving Equations

12. The DollarWise Baseball Store is having a sale. Study the advertisement below. Which equation could be used to find the cost of any pair of items? Let x equal the price of one item; let c equal the total cost.

The DollarWise Baseball Store **BIG SALE**

Buy a pair of any item and get a dollar off!

Hats	\$2 each
Balls	\$5 each
Bats	\$10 each
Gloves	\$12 each

- a. $c = 2x + 1$ c. $c = x + 1$
b. $c = 2x - 1$ d. $c = x - 1$

13. The veterinarian put Jeremy's dog on a diet. On the diet, Spot lost 15 pounds in 60 days. At what unit rate did spot lose weight?

- a. 0.25 pounds per day
b. 0.5 pounds per day
c. 2 pounds per day
d. 4 pounds per day

14. Grant bought more than 120 flower bulbs to plant in his garden. He bought 2 bags of tulip bulbs with 30 bulbs per bag. He also bought 5 bags of daffodil bulbs. What is the least number of daffodil bulbs that could be in each bag?

- a. 60 c. 65
b. 12 d. 13

15. To make a long-distance call, Jill pays \$0.20 per call plus \$0.16 per minute. How long can Jill talk for \$1.00?

- a. 4.2 minutes c. 6.25 minutes
b. 5 minutes d. 7.5 minutes