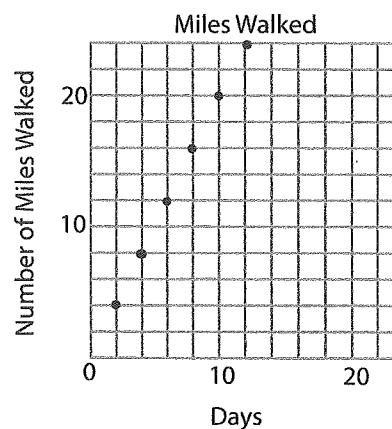Name: _____ Date: _____

*Show all your work for full credit! Grade 7 Graded Homework

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1. Sharon used 3 cups of water with every 2 cups of lemon juice to make lemonade. Find the ratio of the amount of lemon juice used to the amount of water used.

2. There are 24 students in Mr. Hunts class. If 15 of the students are girls, what is the ratio of boys to girls in his class.

    A. 2:3
    B. 5:8
    C. 3:5
    D. 5:3

Miles Walked

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5. It took Valerie 90 minutes to drive 120 miles. Which of the following unit rates expresses how fast Valerie was traveling?

    A. 60 miles per hour
    B. 40 miles per hour
    C. 75 miles per hour
    D. 80 miles per hour

6. If there are 18 plants in 3 rows, how many plants are there per row?

    A. 1 plant per row
    B. 18 plants in 3 rows
    C. 12 plants per row
    D. 6 plants per row

3. Using the information above, how many miles were walked on Day 8?

4. How many miles were walked per day?

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7. If Jordan took 3 hours to run 9 miles, which of the following unit rates represents how long it took Jordan to run each mile?

    A. 1/4 of an hour per mile
    B. 1/3 of an hour per mile
    C. 2/3 of an hour per mile
    D. 3 hours per mile

8. Mrs. Clark purchased a box of pencils. The purchase price was $1.80 for 12 pencils. How much did she pay for each pencil?

    A. $0.20 per pencil
    B. $1.50 per pencil
    C. $0.15 per pencil
    D. $0.18 per pencil

9. Do these two ratios create a proportion?

$$\frac{3 \text{ boys}}{7 \text{ girls}} = \frac{9 \text{ boys}}{21 \text{ girls}}$$

Circle One:

Yes or No

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10. Give one reason why these two ratios do not create a proportion?

$$\frac{3 \text{ boys}}{7 \text{ girls}} = \frac{12 \text{ girls}}{21 \text{ boys}}$$

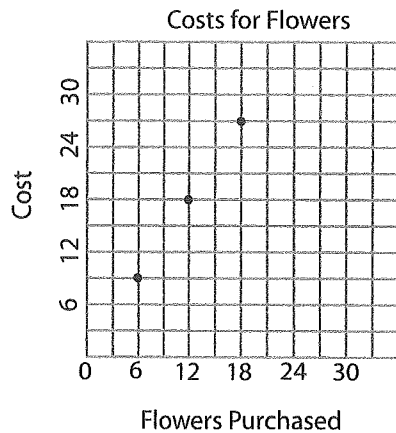**11.** Find the missing number in the proportion.

$$\frac{3}{7} = \frac{n}{14}$$
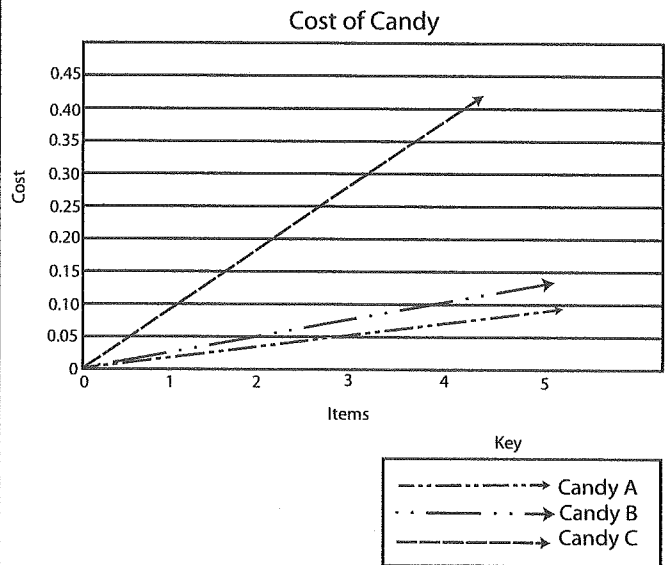
n =

12. Find the missing number in the proportion.

$$\frac{4}{7} = \frac{56}{n}$$

n =

Costs for Flowers

Costs for Flowers

Cost (y-axis): 6, 12, 18, 24, 30
Flowers Purchased (x-axis): 0, 6, 12, 18, 24, 30

13. Using the information above, what would the cost be to purchase 24 flowers?

14. What is the cost per flower?

Cost of Candy

Cost of Candy

Cost (y-axis): 0.05, 0.10, 0.15, 0.20, 0.25, 0.30, 0.35, 0.40, 0.45
Items (x-axis): 0, 1, 2, 3, 4, 5

Key
----------→ Candy A
· · — · · · → Candy B
————————→ Candy C

15. Which candy is the better deal?

A. Candy A
B. Candy B
C. Candy C

16. A pizza with 8 slices costs $14.80. Complete the table below to determine how much the cost is for 1, 2, 3 and 4 slices.

cost				
number of slices	1	2	3	4

17. How much is the cost per slice?

18. A pizza with 8 slices costs $14.80. What equation can be used to determine the total cost, t, of n slices?