


Level E - Form 1 - Applied Mathematics: Data Analysis

Sample Question

Small.....	\$1.50
Medium.....	\$2.25
Large.....	\$3.50
Jumbo.....	\$4.25 

What is the cost of one large popcorn?

- A \$1.50
- B \$2.25
- C \$3.50
- D \$4.25

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Gabe's daughter Alana wasn't doing her homework. So Gabe began using this chart to keep track of why each of her assignments was missing. Study the chart. Then do Numbers 1 through 4.

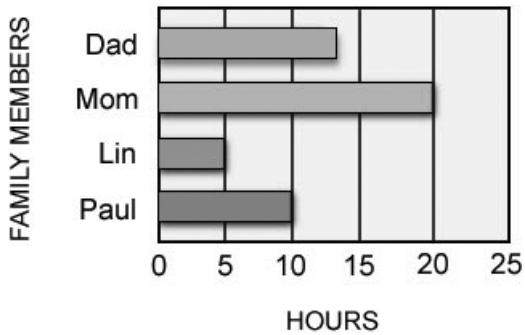
Alana's Reasons for Missing Assignments

Felt Tired	Forgot	Work Too Hard	Didn't Get Assignment	Teacher Lost Work

- How many times did Alana forget to do her homework?
 - 6
 - 7
 - 5
 - 3
- How many times did Alana miss getting an assignment or find the work too hard?
 - 3
 - 5
 - 7
 - 8
- Altogether, how many assignments does Alana have missing?
 - 20
 - 25
 - 29
 - 27
- Based on the chart, which of these statements is true?
 - Alana sleeps in class.
 - Alana is the most forgetful girl in her class.
 - Alana's work was too hard because Alana's teachers didn't explain it very well.
 - Alana missed assignments most often because she felt tired.

The graph shows how much time Mrs. Chen's family spent using the Internet one week. Study the graph. Then do Numbers 5 through 8.

Hours Spent Using the Internet



5. Which person spent ten hours using the Internet?
 - A Dad
 - B Mom
 - C Lin
 - D Paul

6. Which phrase describes the amount of time Paul spent using the Internet compared with the amount of time Mom spent?
 - F almost as much time
 - G a little less time
 - H half as much time
 - J twice as much time

7. Which is the best estimate of the time Dad spent using the Internet?
 - A 15 hours
 - B 13 hours
 - C 11 hours
 - D 8 hours

8. Which is the best estimate of the average amount of time a family member spent using the Internet that week?
 - F 12 hours
 - G 17 hours
 - H 9 hours
 - J 7 hours

These are the rates to stay overnight on a working farm. Study the table. Then do Numbers 9 through 11.

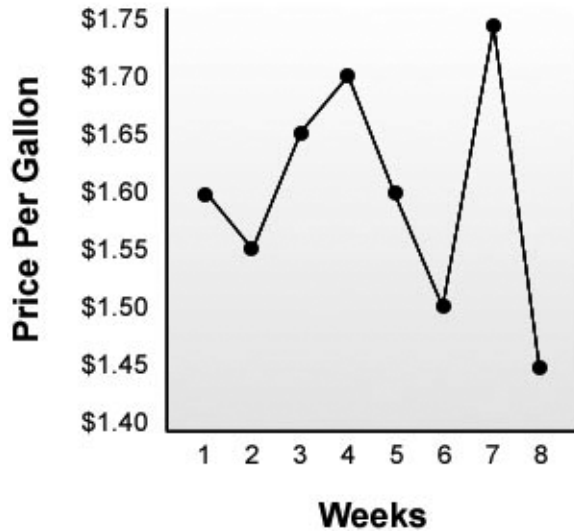
RATES PER PERSON	
First week:	\$35 per night (\$25 for senior citizens)
Added days after 1 week:	\$15 per night
Meals (per person):	\$4 for breakfast \$6 for lunch \$8 for dinner

9. How much less does a senior citizen pay per night than a non-senior citizen during the first week?
- A \$25
 - B \$10
 - C \$5
 - D \$20

10. Arnold is 27 years old. He is staying at the farm for one day with lunch only. How much will he pay?
- F \$31
 - G \$41
 - H \$35
 - J \$43
11. How much does it cost to eat all three meals at the farm for one day?
- A \$8
 - B \$18
 - C \$15
 - D \$12

The graph shows the price of gas at Ray's local filling station over an 8-week period. Study the graph. Then do Numbers 12 through 15.

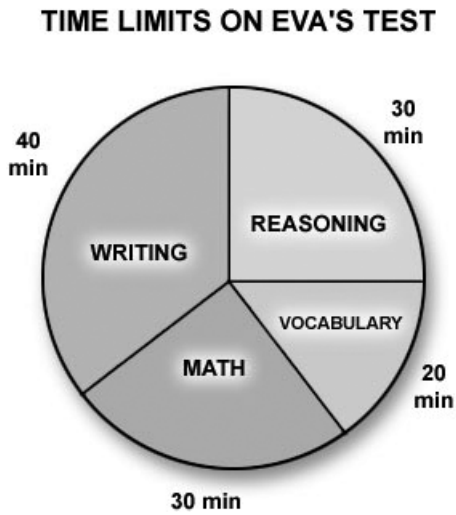
AVERAGE GAS PRICE



12. What was the average price of a gallon of gas during week 8?
- F \$1.70
 - G \$1.55
 - H \$1.45
 - J \$1.40

13. Which pair of weeks had the same average gas price?
- A week 1 and week 5
 - B week 6 and week 8
 - C week 4 and week 7
 - D week 2 and week 6
14. Which week had the highest average gas price?
- F week 4
 - G week 7
 - H week 8
 - J week 3
15. Which statement best describes what happened to average gas prices from week 2 to week 4?
- A They fell.
 - B They rose and then fell.
 - C They stayed the same.
 - D They rose.

Eva completed a four-part test for a new job. Each part had its own time limit. The graph shows how the test was broken down. Study the graph. Then do Numbers 16 through 18.



16. How long did Eva have for the writing part of her test?
 - F 40 minutes
 - G 30 minutes
 - H 20 minutes
 - J 50 minutes

17. How much time was allowed for the entire test?
 - A 4 hours
 - B 3 hours
 - C 2 hours
 - D 1 hour

18. Eva began with the part that had the shortest time limit. Which part was this?
 - F reasoning
 - G writing
 - H math
 - J vocabulary

This label shows the nutritional facts on a can of tuna. Study the label. Then do Numbers 19 through 20.

Nutrition Facts	
Serving Size	2 oz. drained (about $\frac{1}{4}$ cup)
Servings	about 2.5
Calories 60	
Protein	13 g
Cholesterol	30 mg

19. Tony eats a 2 oz serving of tuna. How many calories is this?
 - A 2.5 calories
 - B 60 calories
 - C 13 calories
 - D 30 calories

20. Including himself, Tony has four people in his family. About how many cans of tuna would be needed to make a tuna sandwich for each person in his family?
 - F 8 cans
 - G 2 cans
 - H 4 cans
 - J 1 cans