

Level D - Form 1 - Applied Mathematics: Estimation

Sample Question

Gary spent \$15.15 for a shirt and \$40.85 for a jacket. About how much did he spend in all?

- A \$53.00
- B \$54.00
- C \$55.00
- D \$56.00

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Yuri is landscaping the grounds of an office complex. He is putting in grass, flower beds, bushes, and a small circular pond. Use this information to do Numbers 1 through 4.

1. Yuri needs to buy 12 bags of soil for the area around the flowers. If each bag of soil costs \$7.95, about how much will Yuri spend on soil?
 - A less than \$80
 - B between \$80 and \$100
 - C between \$100 and \$120
 - D more than \$120
 2. Yuri ordered \$142 worth of supplies. The tax rate was 7%. Which of the following is a reasonable estimate for the amount of tax he paid?
 - F about \$0.10
 - G about \$10.00
 - H about \$7.00
 - J about \$0.07
 3. Yuri spent about two hours planting nine bushes. About how long did it take him to plant each bush?
 - A 9 minutes
 - B 15 minutes
 - C 22 minutes
 - D 29 minutes
 4. Yuri arrived at the jobsite at 7:50 A.M. and left at 5:45 P.M. About how many hours was he at the jobsite?
 - F 2 hours
 - G 8 hours
 - H 10 hours
 - J 12 hours
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5. Last week, 3,589 people shopped at the bookstore. What is this number rounded to the nearest hundred?
 - A 3,590
 - B 4,000
 - C 3,500
 - D 3,600
 6. What is 24,928 rounded to the nearest thousand?
 - F 24,900
 - G 25,000
 - H 20,000
 - J 24,000
 7. Rosa drives on a highway from Tucson, Arizona, to the Grand Canyon. She travels a distance of about 300 miles. What is a reasonable estimate of her driving time if she averaged 55 miles per hour?
 - A 2 hours
 - B 5 hours
 - C 15 hours
 - D 50 hours

8. Which of the following is the most reasonable estimate for the height of a skyscraper that is 38 stories in height if each story is 12 feet tall?
- F between 40 and 80 feet
 - G between 100 and 250 feet
 - H between 350 and 450 feet
 - J between 1,000 and 1,100 feet
9. How many of the numbers round to 61.6 when rounded to the nearest tenth?
- | | | | | |
|-------|-------|-------|-------|-------|
| 60.71 | 61.71 | 61.17 | 61.57 | 61.66 |
|-------|-------|-------|-------|-------|
- A 0
 - B 1
 - C 2
 - D 3
10. It will cost \$636.75 to repair Kathy's car. Rounded to the nearest ten dollars, how much will that cost?
- F \$600
 - G \$630
 - H \$637
 - J \$640
11. Eli bought a computer for \$1,188.95. Rounded to the nearest hundred dollars, how much did Eli pay?
- A \$1,000
 - B \$1,100
 - C \$1,200
 - D \$1,300
12. The floor of a warehouse measures 9,200 square feet. One gallon of paint covers 500 square feet. About how many gallons of paint are needed to paint the warehouse floor?
- F about 10
 - G about 20
 - H about 40
 - J about 50
13. The floor of a warehouse measures 9,200 square feet. Miguel can paint about 2,200 square feet in an hour. About how long will it take Miguel to paint the entire floor?
- A about 2 hours
 - B about 4 hours
 - C about 6 hours
 - D about 8 hours
14. An average of 97 people visit an art gallery every day. Which of these numbers is the best estimate of how many people visit the gallery in one month?
- F 1,500
 - G 3,000
 - H 15,000
 - J 30,000
15. The average home attendance for a baseball team was about 38,000 people per game. If there were 81 home games during the season, what is a reasonable estimate for their total home attendance for the season?
- A 32,000,000
 - B 3,200,000
 - C 320,000
 - D 32,000

Montgomery's Furniture is advertising a sale. Study the ad. Then do Numbers 16 through 17.

Montgomery's Furniture

Spring Sale

6-Piece Living Room Set Purchase Today for \$1,025!

Finance Plan: 5% down and 12 easy monthly payments.*

*Each payment includes an \$18.00 finance charge.



16. Jared decided to buy the living room set using the finance plan. He made a down payment of 5% of the purchase price. About how much was his down payment?
- F \$5.00
 - G \$10.00
 - H \$50.00
 - J \$100.00
17. Suki purchased the living room set and paid in full. Sales tax was 8%. About how much did Suki pay, including tax?
- A \$80.00
 - B \$1,000.00
 - C \$1,100.00
 - D \$1,800.00

18. In which of these pairs of numbers would both numbers round to 8.43?

F 8.419 and 8.436

G 8.429 and 8.437

H 8.424 and 8.434

J 8.427 and 8.433

19. Which of the following is the most reasonable estimate for 25% of \$811.75?

A less than \$190

B more than \$190, but less than \$210

C more than \$210, but less than \$230

D more than \$230

20. Which of the following gives the same result when rounded to the nearest dollar as it gives when rounded to the nearest dime?

F \$12.98

G \$12.08

H \$12.51

J \$12.93