1. Craig's sleeping bag has four sides. The side with the zipper is parallel to the opposite side. None of the angles where the sides meet are right angles. The side opposite the zipper is shorter than the side with the zipper. The other two sides are the same length as each other. What shape is Craig's sleeping bag?
   A. rectangle
   B. rhombus
   C. trapezoid
   D. hexagon
   E. Not Given

2. John delivers newspapers and figures that he makes about 7¢ per newspaper each day of delivery. If he delivers 48 newspapers each day, how much does he make during one 7-day week?
   A. $23.52
   B. $336.00
   C. $49.00
   D. $6.72
   E. Not Given

3. Mrs. Ramon's class was getting ready to plant tomatoes. They were wondering if each package of tomato seeds contained the same number of seeds. They counted the seeds in four packages and found that there was an average of 73 seeds in the packages. The first three packages contained 78, 71, and 74 seeds, respectively. How many seeds were in the fourth package?
   A. 73 seeds
   B. 69 seeds
   C. 74 seeds
   D. 70 seeds
   E. Not Given

4. Divide. \[ \frac{3311.5}{89.5} = \]
   A. 370
   B. 37
   C. 37
   D. 37.5
   E. Not Given
5. In the course of manufacturing soap, the cutting machine produces a good amount of scraps. In fact, the scraps from 11 bars of soap could be cut into an extra bar. How many extra bars of soap can be made after cutting 250 bars of soap?

A. 23 bars  
B. 11 bars  
C. 30 bars  
D. 22 bars  
E. Not Given

6. Lisa mailed some postcards to 10 of her friends while she was on vacation. She sent three of them 1 postcard each, and the rest of them 2 postcards each. How many postcards did she send in all?

A. 13 postcards  
B. 14 postcards  
C. 17 postcards  
D. 23 postcards  
E. Not Given

7. The first shelf of one bookcase is 2 in. off the ground. The second shelf is 1 ft. 5 in. above the first. The third shelf is 1 ft. 3 in. above the second. The fourth shelf is 1 ft. 2 in. above the third. The top shelf is 1 ft. 4 in. above the fourth. How high off the ground is the top shelf?

A. 4 ft. 5 in.  
B. 16 ft.  
C. 6 ft. 2 in.  
D. 5 ft. 4 in.  
E. Not Given

8. In a few weeks Jeff will be 11 years old. In 11 years Jeff will be half the average age of his parents. His mother is only 17 years older than her son. How old is Jeff’s father today?

A. 43 years  
B. 37 years  
C. 35 years  
D. 26 years  
E. Not Given
13. Use the clues to find the number.
   • To the nearest ten, the number rounds to 460.
   • The sum of the digits in the hundreds and tens place is 9.
   • The digit in the tenths place is half the digit in the ones place.
   • The digit in the ones place is greater than 5 and less than 7.

   A. 446.3  
   B. 459.6  
   C. 456.3  
   D. 466.3  
   E. Not Given

14. Five different varieties of flowers are growing in the garden. Kathy arranges them in vases to sell and she uses three different types of flowers in each vase. How many different combinations can be made from the five varieties of flowers?

   A. 10  
   B. 15  
   C. 30  
   D. 12  
   E. Not Given

15. What is the place value of the 9 in the number 492,056,187?

   A. million  
   B. ten thousand  
   C. billion  
   D. ten million  
   E. Not Given

16. There are 132 fire stations in Mirette. There are 742,236 homes in this huge city. If the fire stations are responsible for an equal number of homes, how many homes is each fire station responsible for?

   A. 5623 homes  
   B. 610 homes  
   C. 562 homes  
   D. 5632 homes  
   E. Not Given
17. 38 is what percent of 40?

A. 40%
B. 38%
C. 85%
D. 90%
E. Not Given

18. Cox Company is taping commercials for several companies. They need 20 minutes of commercials. They have already taped twenty-six 15-second commercials, fifteen 30-second commercials, and four 1-minute commercials. How much time do they have left?

A. 3 min. 40 sec.
B. 4 minutes
C. 2 minutes
D. 6 min. 20 sec.
E. Not Given

19. Karl kept track of the cars he saw on the freeway. He saw twice as many white cars as blue cars. The number of red cars was three less than the number of white cars. There were five times as many silver cars as red cars. Karl saw 25 silver cars. How many cars did he see on the freeway?

A. 25 cars
B. 47 cars
C. 38 cars
D. 42 cars
E. Not Given

20. The K-5 school made $2800 on the school carnival. The second and fourth-grade classes each made only $200. The kindergarten and fifth-grade classes each made double the second grade’s amount. The first and third grades made the same amount of money. How much did the first grade classes make?

A. $1600
B. $2600
C. $800
D. $1200
E. Not Given
21. At the beginning of the spelling bee there were 60 participants. One-third of the participants were eliminated during the first round. One-fourth of the remaining participants were eliminated during the second round. One-sixth of the remaining participants were eliminated during the third round. How many participants were still competing at the beginning of the fourth round?

   A. 46 participants  
   B. 30 participants  
   C. 15 participants  
   D. 25 participants  
   E. Not Given

22. Find the area of the triangle. \( A = \frac{1}{2} b \times h \)

   \[
   \begin{align*}
   \text{10 mm} & \\
   \text{23 mm} & \\
   \end{align*}
   \]

   A. 115 mm\(^2\)  
   B. 230 mm\(^2\)  
   C. 110 mm\(^2\)  
   D. 22.5 mm\(^2\)  
   E. Not Given

23. Solve for \( x \). \( 3(x + 4) = 21 \)

   A. 12  
   B. 3  
   C. 14  
   D. 9  
   E. Not Given

24. What is the prime factorization of 60?

   A. \( 3 \times 4 \times 5 \)  
   B. \( 2 \times 2 \times 3 \times 5 \)  
   C. \( 2 \times 5 \times 6 \)  
   D. \( 2 \times 3 \times 10 \)  
   E. Not Given

5-6
25. A company can buy packages of 500 sheets of computer paper for $4.68. At this rate, how much paper can be bought for $2000?

   A. 214,000 sheets
   B. 2,968 sheets
   C. 427 sheets
   D. 213,500 sheets
   E. Not Given

26. Christine bought a sweater that was on sale for 80% of its regular price. She paid $24 for the sweater. What was the regular price of the sweater?

   A. $19.20
   B. $24
   C. $32
   D. $30
   E. Not Given

27. Divide. \( 9 \frac{1}{2} + 3 \frac{4}{5} = \)

   A. 2 1/2
   B. 2 3/10
   C. 3 3/5
   D. 5 7/10
   E. Not Given

28. There are 37 people attending the family reunion, and they want to split the cost of the present for the grandparents. If the gift costs $464.72, how much should each person contribute?

   A. $13.00
   B. $15.26
   C. $12.56
   D. $16.00
   E. Not Given
29. On Monday, May 1, after 10 hours and 45 minutes of darkness, the sun rose at 6:10 a.m. At what time did the sun set on Sunday, April 30?

A. 8:10 p.m.  
B. 7:25 p.m.  
C. 10:45 p.m.  
D. 6:10 p.m.  
E. Not Given

30. Write the decimal 11.2 as a mixed numeral in simplest form.

A. 11 2/10  
B. 11 2/00  
C. 11 1/2  
D. 11 1/5  
E. Not Given

31. The Spaghetti Factory is a rectangular building. The distance across the front of the store is 98 yards. The distance from the front to the back is one-third of this distance. If the owners paint a sign all the way around the outside of the factory, how many feet long will the sign be?

A. 272 feet  
B. 784 feet  
C. 392 feet  
D. 983 feet  
E. Not Given

32. Juan delivers papers every morning before he goes to school. He has to have all the papers delivered by 6:30 a.m. He has 86 papers and he figures it takes him an average of 1 1/2 minutes to deliver each paper. At what time must he start in order to be done as close to 6:30 as possible?

A. 5:44 a.m.  
B. 12:90 a.m.  
C. 4:21 a.m.  
D. 5:16 a.m.  
E. Not Given
33. The city bus is 45 feet long and 10 feet wide. The maintenance crew wants to paint two yellow stripes around the outside of the bus. What will be the total length of the two yellow stripes?

   A. 110 feet
   B. 220 feet
   C. 450 feet
   D. 55 feet
   E. Not Given

34. If the city of Santa Barbara has a real estate rate of $12 for each $1000 of real estate value, what is this rate as a percent?

   A. 0.012%
   B. 12%
   C. 0.12%
   D. 1.2%
   E. Not Given

35. The most popular treat at Scoops ice cream parlor is the double-scoop cone. If a chocolate scoop on top of a strawberry scoop is considered the same cone as strawberry on top of chocolate, how many different double-scoop cones can be made with six flavors of ice cream?

   A. 15 different cones
   B. 12 different cones
   C. 24 different cones
   D. 21 different cones
   E. Not Given

36. Sydney flew in an airplane five times during her vacation. The flights averaged 2 hours 28 minutes long. The lengths of her first four flights were 2 hours 10 minutes, 3 hours 20 minutes, 1 hour 15 minutes, and 2 hours 40 minutes. What was the length of her last flight?

   A. 2 hours 28 minutes
   B. 2 hours 55 minutes
   C. 9 hours 25 minutes
   D. 3 hours 10 minutes
   E. Not Given
37. Estimate by rounding to the nearest tenth and then adding.

\[ 82.165 + 37.05 = \]

A. 119.215  
B. 119.3  
C. 119.1  
D. 119.22  
E. Not Given

38. In the park there are 32 tulip plants for every 24 iris plants. What is the ratio of tulip plants to iris plants in simplest form?

A. 4:3  
B. 3:4  
C. 2:4  
D. 32:24  
E. Not Given

39. Strawberries are selling at 3 pints for $1.98 at Vons and for 69¢ a pint at Ralph’s. Which is the better buy and how much less do those strawberries sell for?

A. Vons by 12¢ per pint  
B. Vons by 9¢ per pint  
C. Vons by 3¢ per pint  
D. Ralph’s by 20¢ per pint  
E. Not Given

40. Today Cody has 22 pens. Yesterday he bought 9 pens and gave 3 to his best friend. The day before, he divided all of his pens equally among 3 friends and himself. How many pens did Cody start with?

A. 64 pens  
B. 31 pens  
C. 60 pens  
D. 52 pens  
E. Not Given

5-10
41. Which list of numbers is in the order of greatest to least?

A. $\frac{3}{8}, \frac{2}{5}, 0.5, 0.35$
B. $0.5, \frac{2}{5}, \frac{3}{8}, 0.35$
C. $\frac{2}{5}, 0.5, \frac{3}{8}, 0.35$
D. $0.35, \frac{3}{8}, \frac{2}{5}, 0.5$
E. Not Given

42. Use the order of operations to solve this problem. $7^2 - 4^2 \times 3 =$

A. 99
B. 18
C. 10
D. 1
E. Not Given

43. Steve’s driveway is 32 feet long. He plans to lengthen it so it will be 1/4 longer. How long will the new driveway be?

A. 32 1/4 feet
B. 40 feet
C. 36 feet
D. 128 feet
E. Not Given

44. What do you need to do to each side of this equation to solve it? $n - \frac{5}{8} = \frac{2}{3}$

A. Add $\frac{5}{8}$
B. Subtract $\frac{5}{8}$
C. Add $\frac{2}{3}$
D. Subtract $\frac{2}{3}$
E. Unable to solve

45. In the auditorium I sat in the fourth row from the front, which is also the twelfth row from the back. Each row has 14 seats. How many people can be seated in the auditorium?

A. 168 people
B. 216 people
C. 210 people
D. 114 people
E. Not Given
46. Todd's family wants to arrive at the family reunion at 5:00 p.m. for the dinner that is being planned. Driving time will be about 6 hours 30 minutes. They plan to stop for gas one time for approximately 10 minutes. They also plan to stop for lunch for about 45 minutes. At what time should they leave in order to arrive by 5:00 p.m.?

A. 7:25 a.m.
B. 9:35 a.m.
C. 11:00 a.m.
D. 3:40 p.m.
E. Not Given

47. The school cafeteria offers three choices for the main course (peanut butter and jelly sandwich, burrito, or fish sticks) and two choices for the side dish (salad or French fries) and three choices for the dessert (ice cream, brownie, or cookies). How many different combinations can the students order from these choices?

A. 8
B. 18
C. 9
D. 24
E. Not Given

48. What is the Least Common Multiple of 6 and 10?

A. 2
B. 60
C. 16
D. 30
E. Not Given

49. Tom's math scores are: 93, 96, 65, 89, 96, 98, 55, 91, and 95. If his teacher allows him to drop two of his lowest scores and then finds the average of his scores, what would Tom’s new math score be?

A. 95
B. 73
C. 94
D. 86
E. Not Given
50. Each member of the Williams family washes the dishes on a different night of the week. There are three children (Mike, Chris, and Meg) who each wash the dishes one night, while Mom and Dad each wash the dishes two nights during the week. Use the clues below to find out what day of the week Meg washes the dishes.

- The week's schedule of chores starts on Sunday and goes through Saturday.
- Mom's nights are not consecutive (in a row) nor are Dad's.
- None of the kids wash the dishes on the weekends.
- Mom washes the dishes on Monday.
- Mike washes dishes on Tuesday and Chris on Thursday OR Chris washes dishes on Tuesday and Mike on Thursday.
- Dad washes dishes both of his nights before Meg and Mike have their turns.

A. Tuesday
B. Wednesday
C. Thursday
D. Friday
E. Not Given

Congratulations! You've completed the individual portion of the 2006 Math Super Bowl!