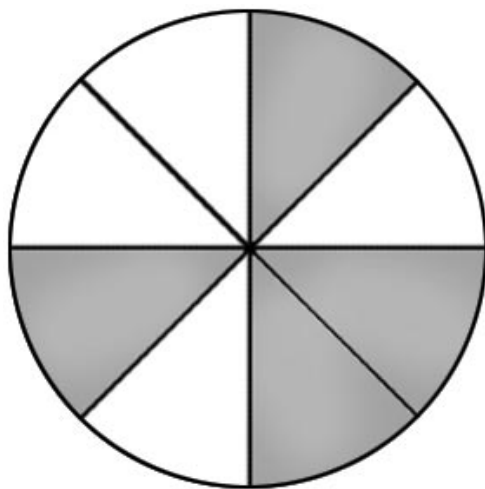


Level E - Form 1 - Applied Mathematics: Number and Number Operations

Sample Question



What fraction of this figure is shaded?

- A $\frac{1}{2}$
- B $\frac{1}{8}$
- C $\frac{1}{4}$
- D $\frac{3}{8}$

Level E - Form 1 - Applied Mathematics: Number and Number Operations

1. What number goes in the boxes to make both number sentences true?

$$\begin{array}{l} 6 + \square = 11 \\ 11 - 6 = \square \end{array}$$

- A 17
B 6
C 5
D 4
2. What number goes in the boxes to make both number sentences true?

$$\begin{array}{l} 5 \times \square = 75 \\ 75 \div 5 = \square \end{array}$$

- F 15
G 14
H 8
J 70
3. Which of these is another name for two hundreds, zero tens, and nine ones?

$$\boxed{2 \text{ hundreds} \quad 0 \text{ tens} \quad 9 \text{ ones}}$$

- A 29
B 209
C 92
D 902

4. Which of these is an even number?

- F 15
G 10
H 7
J 3

5. Which of these lists includes only odd numbers?

- A 2, 4, 6, 8
B 9, 10, 11, 12
C 1, 4, 7, 10
D 3, 5, 7, 9

6. Which of these combinations of coins equals \$0.90?

- F 3 quarters, 2 dimes
G 3 quarters, 2 nickels
H 3 quarters, 3 dimes
J 3 quarters, 3 nickels

7. Which of these has the same answer as the problem in the box?

$$\boxed{3 + 4 + 5}$$

- A $3 \div 9$
B 3×9
C $7 + 5$
D $3 + 2$

Miriam is driving to Austin. She will rent a van. Use this information to do Numbers 8 through 12.

8. Miriam called four different car rental companies. She asked the charge per day for renting a van. Which rate is the least expensive?
- F \$43.05
 - G \$44.25
 - H \$43.77
 - J \$44.00
9. When Miriam begins her trip, the mileage gauge reads 2071. Which one of these is 2071?
- A twenty thousand, seventy-one
 - B two thousand, seven hundred one
 - C two hundred seventy-one
 - D two thousand, seventy-one

10. This is what Miriam's gas gauge looks like when she stops for lunch. What fraction of her gas tank is filled?



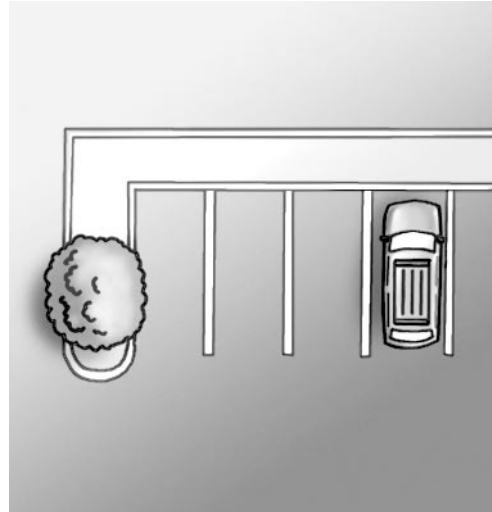
- F $\frac{1}{4}$
- G $\frac{1}{5}$
- H $\frac{1}{3}$
- J $\frac{3}{4}$

11. Near Austin, Miriam sees this sign. She must take the third exit into Austin. How far is it to her exit?

Austin Exits	
Exit 75A	3 miles
Exit 74	4 miles
Exit 73N	5 miles
Exit 73S	6 miles

- A 3 mi
- B 4 mi
- C 5 mi
- D 6 mi

12. When Miriam pulls into her hotel, she parks in the space illustrated in the diagram. Counting from the left, which stall does Miriam park in?



- F the first
- G the second
- H the third
- J the fourth

13. Omar asked 60 people to name their favorite kind of vacation. Forty of them said they liked beach vacations best. What fraction said they liked beach vacations best?

A $\frac{1}{15}$

B $\frac{1}{3}$

C $\frac{2}{3}$

D $\frac{3}{2}$

14. Which of these is another way to show the number 1,296?

F $1,000 + 200 + 90 + 6$

G $1,000 + 20 + 9 + 6$

H $1,000 + 29 + 6$

J $100 + 200 + 96$

15. What number comes before 12 when you count by twos?

A 8

B 11

C 10

D 9

16. Which of these numbers shows five thousand, forty-seven?

F 547

G 5,407

H 5,047

J 5,470

17. Which group of numbers is in order from least to greatest?

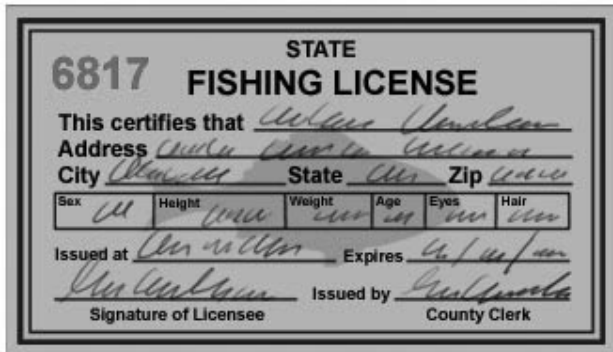
A 21, 43, 50, 65, 87

B 87, 65, 50, 43, 21

C 50, 21, 43, 65, 87

D 43, 21, 50, 65, 87

18. Mr. Miller got his fishing license in the mail. Before he put the license in his wallet, he wrote down the number. However, he made a mistake when writing down his fishing license number. He switched the digits in the tens and hundreds places. What number did Mr. Miller write?



- F 6187
- G 6718
- H 6178
- J 1687

19. Kyla is hiking. She comes to this marker at a fork in the trail. Which of these gives the same distance to Cascade Falls?



- A 0.35 mile
 - B 3.5 miles
 - C 3.2 miles
 - D 3.12 miles
20. Sam has one 5-dollar bill and six quarters. Which of the following shows the amount of money Sam has?
- F \$5.06
 - G \$6.50
 - H \$5.25
 - J \$6.25