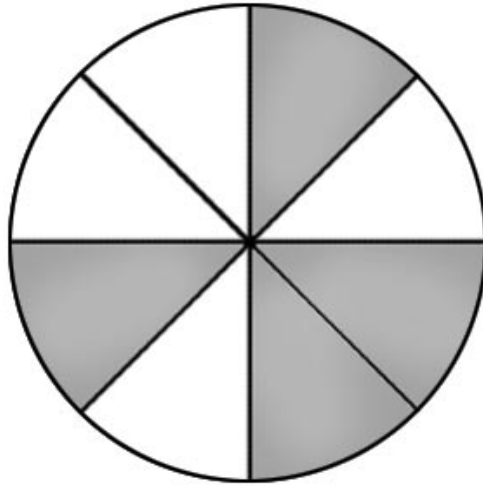# Level D - Form 1 - Applied Mathematics: Number and Number Operations

What fraction of this figure is shaded?

A $\frac{1}{2}$

B $\frac{1}{8}$

C $\frac{1}{4}$

D $\frac{3}{8}$

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

1. Which of these numbers is equal to six thousandths?

    A 0.006

    B 0.06

    C 0.6

    D 6,000

2. Which is equal to 4.03?

    F four and three tenths

    G four and three thousandths

    H four and three hundredths

    J four hundred three

3. During an average baseball game, $\frac{1}{3}$ of the snack bar sales are soft drinks, $\frac{1}{4}$ are popcorn boxes, $\frac{1}{12}$ are pizzas, and $\frac{1}{6}$ are hot dogs. Which item sells the least at the snack bar?

    A soft drinks

    B popcorn

    C pizzas

    D hot dogs

4. Which of the following lists the fractions from greatest to least?

    F $\frac{1}{2}, \frac{1}{4}, \frac{1}{6}, \frac{1}{3}$

    G $\frac{1}{2}, \frac{1}{3}, \frac{1}{4}, \frac{1}{6}$

    H $\frac{1}{6}, \frac{1}{4}, \frac{1}{3}, \frac{1}{2}$

    J $\frac{1}{3}, \frac{1}{4}, \frac{1}{6}, \frac{1}{2}$

5. At a practice tee, a golfer hit a golf ball 80.5 yards, 84.25 yards, 84.05 yards, and 80.75 yards. Which distance is the longest?

    A 80.5

    B 84.25

    C 84.05

    D 80.75

6. Which of these numbers is two hundred six thousand, three hundred seventy-two?

    F 260,372

    G 2,006,372

    H 26,372

    J 206,372

7. Which of these numbers should go in the box to make the equation true?

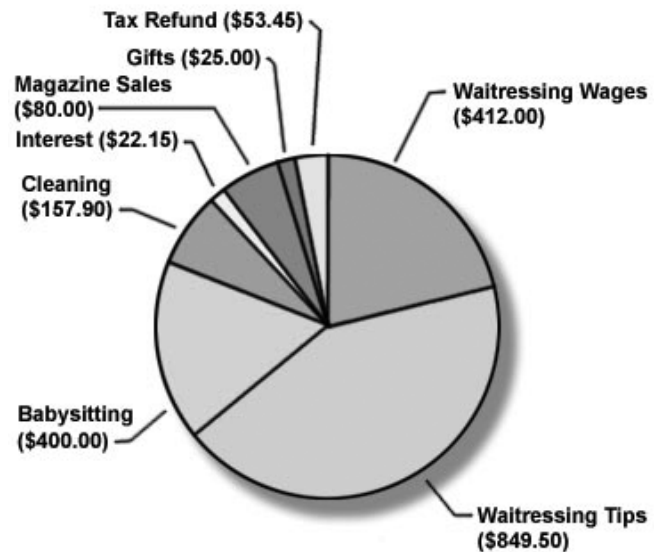$$(5 \times 3) \times (3 \times 1) = 5 \times \boxed{} \times 3$$

A 15

B 3

C 5

D 1

8. Which of these numbers should go in the box to make the equation true?

$$(6 \times 2) + (3 + 1) = (6 + 2) \times \boxed{}$$

F 1

G 2

H 3

J 6

The graph shows all the ways Keisha made money last June. Study the graph. Then do Numbers 9 through 10.

Keisha's Income In June

Tax Refund ($53.45)
Gifts ($25.00)
Magazine Sales ($80.00)
Interest ($22.15)
Cleaning ($157.90)
Waitressing Wages ($412.00)
Babysitting ($400.00)
Waitressing Tips ($849.50)

9. Keisha earned $2,000 in June. What fraction of that money did she make selling magazines?

A $\dfrac{1}{250}$

B $\dfrac{1}{80}$

C $\dfrac{1}{25}$

D $\dfrac{1}{2,000}$

10. Keisha saved $300 from the $400 she made babysitting in June. What fraction of her babysitting earnings did she save?

F $\frac{1}{4}$

G $\frac{1}{3}$

H $\frac{2}{3}$

J $\frac{3}{4}$

11. Forty percent is equal to

A $\frac{1}{40}$

B $\frac{2}{5}$

C $\frac{4}{100}$

D $\frac{1}{5}$

12. Kim persuaded seven-eighths of the people in the audience to vote for him in the city council election. What percent of the people in the audience did Kim persuade to vote for him?
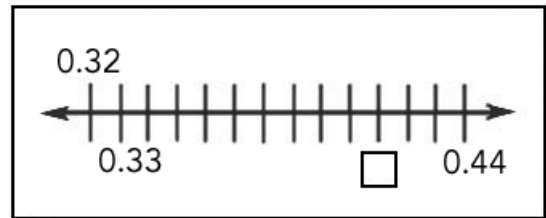
F 87.5%

G 80%

H 12.5%

J $\frac{7}{8}$%
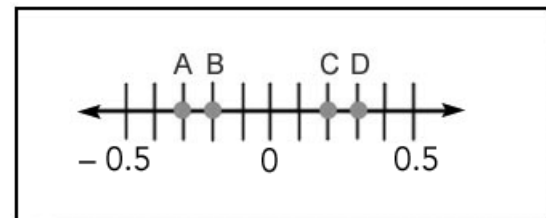
13. What decimal goes in the box on the number line?

0.32

0.33 ☐ 0.44

A 0.38

B 0.39

C 0.40

D 0.41

14. Which decimal gives the location of point C on the number line?

A B   C D

− 0.5   0   0.5

F - 0.3

G - 0.2

H 0.2

J 0.3

15. Which of the following is true about the number 8?

A It is a multiple of 4 and a factor of 36.

B It is a multiple of 3 and a factor of 40.

C It is a multiple of 2 and a factor of 20.

D It is a multiple of 2 and a factor of 32.

16. Which of the following is true about the number 15?

    F It is a multiple of 5 and a factor of 25.

    G It is divisible by 3 and a factor of 45.

    H It is divisible by 6 and a multiple of 3.

    J It is divisible by 10 and a factor of 60.

17. Miguel is a cartoonist. Miguel drew 2 cartoon cells in 3 hours. If he keeps drawing at the same rate, about how many cells will he draw in 9 hours?

    A 4 cells

    B 5 cells

    C 6 cells

    D 13.5 cells

18. Miguel is a cartoonist. In 2 out of every 5 cells Miguel draws, the character of Old Pete appears. If he draws 50 cells, how many will show Old Pete?

    F 5 cells

    G 10 cells

    H 20 cells

    J 25 cells

19. Eva is making copies of her choir's performance schedule. Eva decides to make 600 copies, 75% of which will be on blue paper. To compute how many sheets of blue paper she will need, she must multiply 600 by what number?

    A 75

    B 7.5

    C 0.75

    D 0.075

20. Eva is making copies of her choir's performance schedule. The total bill for the copies Eva made came to $48.00 plus 8% tax. How much tax did she pay?

    F $0.08

    G $3.24

    H $3.84

    J $38.40