

On the number line shown above, what number represents the point half the distance between points C and D?

- A) 0 B) 2 C) 4 D) 16



B. Fractions

1. $\frac{3}{4} \times 24 =$

- A) 72 B) 18
C) 12 D) 96

2. $\frac{5}{12} \times 3 =$

- A) $\frac{5}{4}$ B) $\frac{8}{16}$
C) $\frac{2}{3}$ D) $\frac{1}{3}$

3. $(1\frac{1}{16} + 1) - \frac{9}{8} =$

- A) 0 B) 8
C) -1 D) $3\frac{1}{2}$

4. In the first 18 games of the season, a baseball player was up to bat 8 times and hit all 8 times. If she continues at the same rate, how many hits will she have after 45 games?

- A) 20 B) 101 C) 45 D) 62

5. For which of the following values of y is $\frac{54}{y}$ a whole number?

- I =6
II =0
III =9

- A) II only B) I and II only
C) II and III only D) I and III only
E) III only

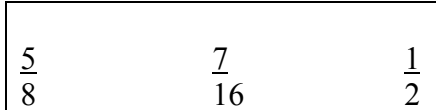
6. $\frac{6 \times 8}{5 \times 3^2} =$

- A) $1\frac{1}{15}$ B) $1\frac{1}{10}$ C) 1 D) $\frac{1}{45}$

$$7. \frac{3 + \frac{1}{2}}{2 + \frac{3}{4}} =$$

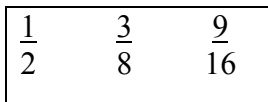
- A) $3 \frac{4}{5}$ B) $2 \frac{5}{12}$ C) $1 \frac{1}{2}$ D) $1 \frac{3}{11}$

8. Which of the fractions shown below is the largest?



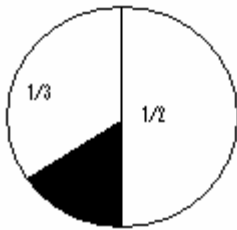
- A) All three fractions are equal B) $\frac{5}{8}$ C) $\frac{1}{2}$ D) $\frac{7}{16}$

9. Of the fractions shown below, which of the following represents the ordering from the smallest to the largest?



- A) $\frac{9}{16}, \frac{1}{2}, \frac{3}{8}$ B) $\frac{3}{8}, \frac{1}{2}, \frac{9}{16}$ C) $\frac{1}{2}, \frac{9}{16}, \frac{3}{8}$ D) $\frac{3}{8}, \frac{9}{16}, \frac{1}{2}$

10. In the figure shown below, what fractional part of the circle is shaded?



- A) $\frac{5}{9}$ B) $\frac{7}{9}$ C) $\frac{16}{6}$ D) $\frac{1}{6}$

11. $\frac{2}{6} + \frac{3}{4} =$ A) $\frac{5}{10}$ B) $\frac{3}{10}$ C) $\frac{5}{6}$ D) $\frac{13}{12}$



C. Decimals

1. $0.148 + 637 + 93.96 =$

- A) 76.108 B) 94.781
C) 731.108 D) 10.217

2. $721.75 - 68.247 =$

- A) 39.28 B) 365.305
C) 653.503 D) 635.053

3. What is 45% of 500?

- A) 22.5 B) 225
C) 2,250 D) 22,500

4. $\frac{0.03645}{2.7} =$

- A) 001.35 B) 00013.5
C) 00.135 D) 0.0135

5. Dawn and Terry each earn \$15.00 per hour at part time jobs. If on a certain day Terry worked three and one-half hours and Dawn worked four and three-quarter hours, what is the total amount of their earnings that day?

- A) \$123.75 B) \$50.50 C) \$120.00 D) \$65.75

6. $16\% =$

- A) 1.6 B) 0.16
C) 16.0 D) 0.016

7. $3\% =$

- A) 0.03 B) 0.3
C) 3.0 D) 30.0

8. $(2.3)^2 - (0.3)^2$

- A) 2 B) 4.09
C) 5.2 D) 1

9. It takes 16 minutes for a certain bacteria population to double. If there are 6,140,276 bacteria in this population at 9:15am, what is the best estimate, in millions, of the number of bacteria at 9:47am on the same day?

- A) 25 B) 30 C) 64 D) 12

10. Which of the following numbers best approximates $3,076 - 307.6$?

- A) 300 B) 3000 C) 30 D) 30,000

11. The price of a television was increased from \$240.00 to \$300.00. What is the percent increase in the price of the television?

- A) 25% B) 10% C) 30% D) 85%

12. $\frac{1}{4} + 1.2 =$

- A) $\frac{13}{9}$ B) $\frac{13}{11}$ C) $\frac{47}{20}$ D) $\frac{29}{20}$