

# TEACHING INCORE-CASA

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# Latest Version: 6.0

## Question: 1

Which number is not a factor of 648?

- A. 2
- B. 3
- C. 7
- D. 8

**Answer: C**

Explanation:

To quickly solve, notice that 648 is an even number (divisible by 2), its digits add up to 18 (divisible by 3), and 8 can be divided into the figure.

## Question: 2

Write  $\frac{4}{5}$  as a percentage.

- A. 40%
- B. 45%
- C. 60%
- D. 80%

**Answer: D**

Explanation:

To solve, divide the numerator by the denominator and multiply by 100:

$$\frac{4}{5} = 0.8 \times 100\% = 80\%$$

## Question: 3

Solve for X.

$$\frac{1}{6} \div \frac{3}{8} = x$$

- A.  $x = \frac{1}{16}$

- B.  $x = \frac{4}{9}$   
 C.  $x = 2\frac{3}{8}$   
 D.  $x = 2\frac{1}{3}$

**Answer: B**

Explanation:

To divide fractions, multiply the dividend (the first fraction) by the reciprocal (turn it upside down) of the divisor (the second fraction):

$$\begin{aligned}\frac{1}{6} \div \frac{3}{8} &= \frac{1}{6} \times \frac{8}{3} \\ &= \frac{18}{18} \\ &= \frac{4}{9}\end{aligned}$$

#### Question: 4

What is the simplest form of  $\frac{3}{8} \times \frac{3}{8}$ ?

- A.  $\frac{3}{4}$   
 B.  $\frac{6}{8}$   
 C.  $\frac{9}{64}$   
 D.  $1\frac{1}{8}$

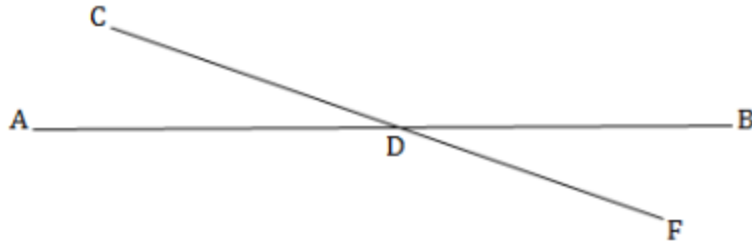
**Answer: C**

Explanation:

Multiply the numerators by one another to get the new numerator ( $3 \times 3 = 9$ ), and the denominators by one another to get the new denominator ( $8 \times 8 = 64$ ). The result ( $\frac{9}{64}$ ) is in simplest form.

#### Question: 5

CF is a straight line. Angle BDF measures  $45^\circ$ . What is the measure of angle BDC?



- A.  $45^\circ$
- B.  $135^\circ$
- C.  $180^\circ$
- D.  $315^\circ$

**Answer: B**

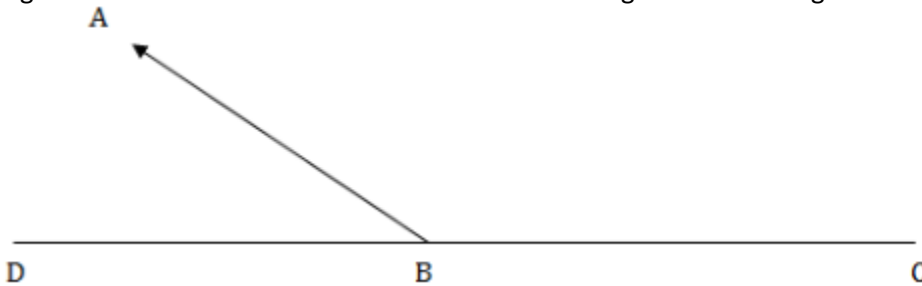
Explanation:

Since CF is a straight line, its measure is  $180^\circ$ . Since  $\angle BDF = 45^\circ$ , then:

$$\angle CDB = 180^\circ - 45^\circ = 135^\circ$$

### Question: 6

Angle ABC measures  $150^\circ$ . What is the measure of angle ABD in the figure below?



- A.  $35^\circ$
- B.  $50^\circ$
- C.  $70^\circ$
- D. It cannot be determined from the information given.

**Answer: A**

Explanation:

Since they are on a straight line, these two angles are supplementary angles: they add up to  $180^\circ$ , which is the measure of a straight line. Since one angle is  $150^\circ$ , the second angle on this line is:  
 $180^\circ - 150^\circ = 30^\circ$

### Question: 7

Which of the following is the largest number?

- A. 0.004
- B. 0.03
- C. 0.2
- D. 0.400

**Answer: D**

Explanation:

Choice A is a number in the thousandths: choice B is a number in the hundredths: Choices C and D are in tenths. The number 0.400, or four-tenths, is the largest of these choices.

### Question: 8

Which of the following choices expresses  $\frac{11}{25}$  as a percentage?

- A. 11%
- B. 36%
- C. 40%
- D. 44%

**Answer: D**

Explanation:

Recall that percent means "per 100," so convert  $\frac{11}{25}$  to a percentage by multiplying both the numerator and denominator by 4:

$$\frac{11 \times 4}{25 \times 4} = \frac{44}{100}$$

This means  $\frac{11}{25}$  is the same as "44 per 100," or 44%.

### Question: 9

Arrange the following numbers in order from least to greatest:

0.083      0.017      -0.18      0      1.03      -2.8

- A. -2.8, -0.18, 0, 0.017, 0.083, 1.03
- B. 1.03, 0, 0.017, 0.083, -0.18, -2.8
- C. 0, -2.8, -0.18, 0.083, 0.017, 1.03
- D. 0.017, 0.083, 0, 1.03, -0.18, -2.8

**Answer: A**

Explanation:

Think of the numbers as they would appear on a number line to place them in the correct order, from the greatest negative number to the greatest positive number.

### Question: 10

What is the value of x in the following equation?

$$15 - x = 78$$

- A. 5.2
- B. 63
- C. -63
- D. -93

**Answer: C**

Explanation:

The equation can be rearranged and simplified as follows:

$$15 - x = 78$$

$$15 - 78 = x$$

$$-63 = x$$

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