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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):

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

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. $1\frac{1}{8}$

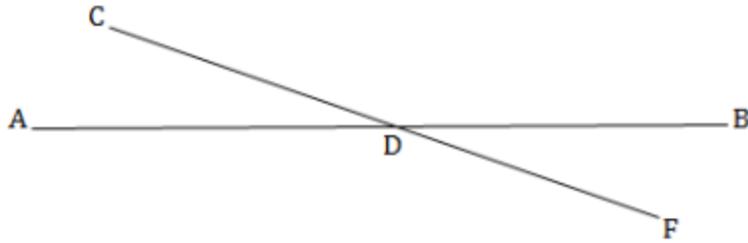
Answer: C

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° . What is the measure of angle BDC?



- A. 45°
- B. 135°
- C. 180°
- D. 315°

Answer: B

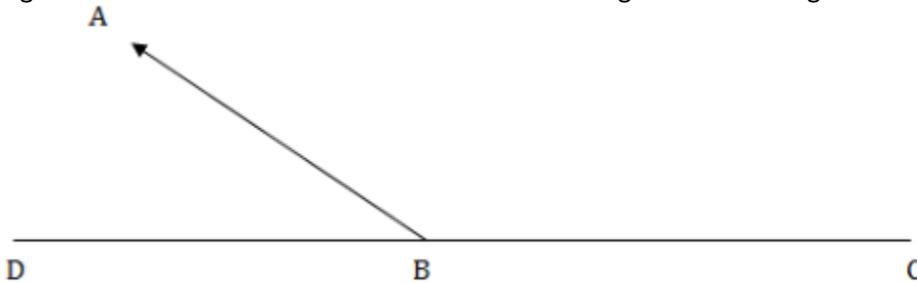
Explanation:

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

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

Question: 6

Angle ABC measures 150° . What is the measure of angle ABD in the figure below?



- A. 35°
- B. 50°
- C. 70°
- 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° , which is the measure of a straight line. Since one angle is 150° , 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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