TEACHING
INCORE-CASA

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Question: 1

Which number is not a factor of 648?

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

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%

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. $x = 2\frac{1}{3}$

Explanation:

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

$$\frac{1}{6} \div \frac{3}{8} = \frac{1}{6} \times \frac{8}{3}$$
$$= \frac{8}{18}$$
$$= \frac{4}{9}$$

Question: 4

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

A. $\frac{3}{4}$
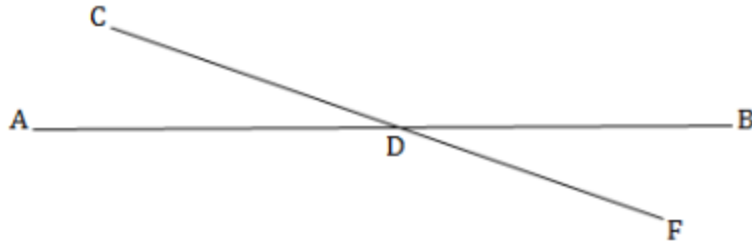
B. $\frac{6}{8}$

C. $\frac{9}{64}$

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

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 ($\frac{9}{16}$) is in simplest form.

Question: 5

CF is a straight line. Angle BDF measures 45˚. What is the measure of angle BDC?
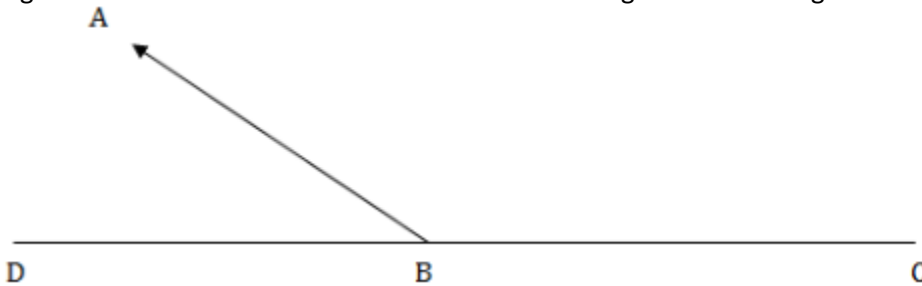
A. 45˚
B. 135˚
C. 180˚
D. 315˚

Answer: B

Explanation:

Since CF is a straight line, its measure is 180°. Since ∠BDF = 45°, then:

$$\angle CDB = 180° - 45° = 135°$$

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˚ − 150˚ = 30˚

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, o, 0.017, 0.083, 1.03
B. 1.03, o, 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, o, 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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