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QUESTION 1

What is 0.3172 rounded to the nearest tenth?

A. 0.3

B. 0.32

C. 0.317

D. 0.3172

Correct Answer: A

Explanation:

0.32 is rounded to the hundredths place.

0.317 is rounded to the thousandths place.

0.3172 is rounded to the nearest ten-thousandths place.

QUESTION 2

If I = prt, and p = $1,000, r = 7%, and t = 1, what does I equal?

A. $35

B. $1,000
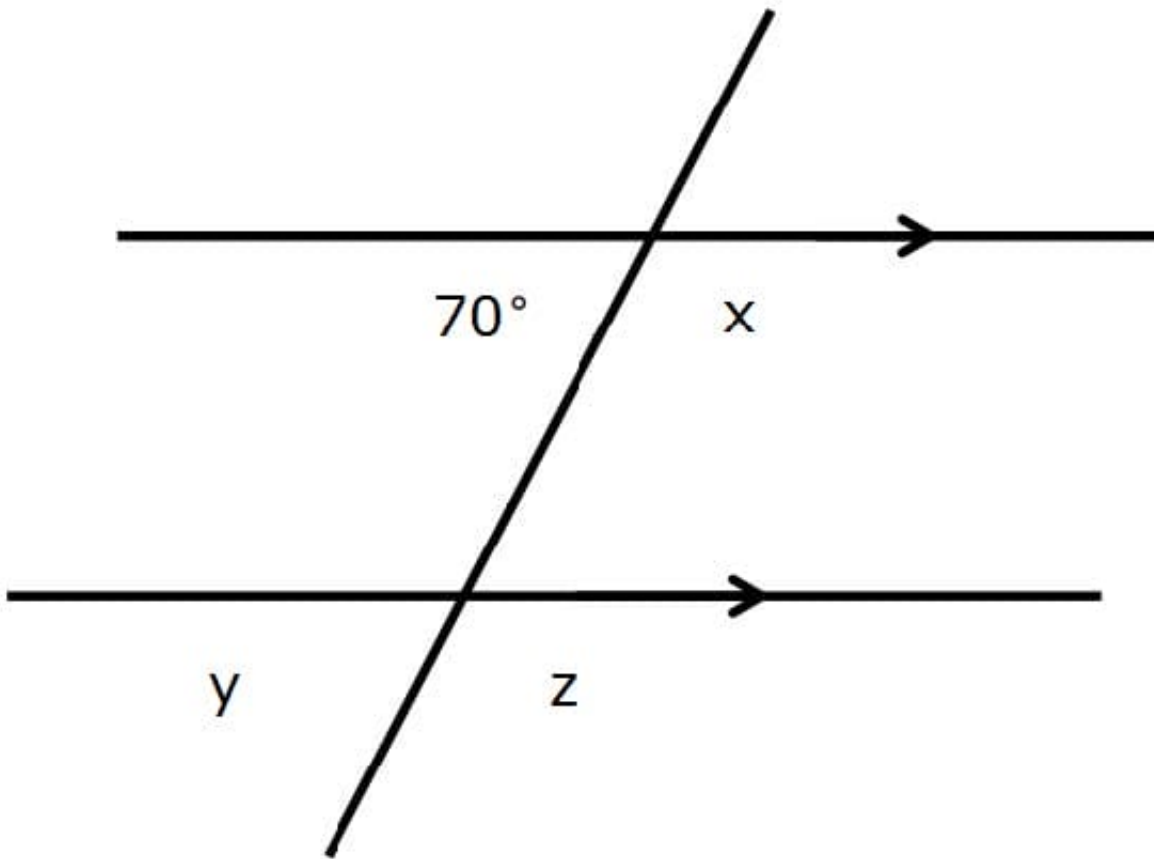
C. $700 D. $70

Correct Answer: D

Explanation:

Solve for I.

I = (1,000) (7%) (1) or I = (1,000) (0.07) (1) = 70.

QUESTION 3

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In the diagram of parallel lines provided, what is the measure of angle z?

A. 180°

B. 90°

C. 110°

D. 70°

Correct Answer: C

QUESTION 4

$(x + 4)(x + 2) =$ _____.

A. $x2 + 6x + 6$

B. $x2 + 8x + 8$

C. $x2 + 8x + 6$

D. $x2 + 6x + 8$

Correct Answer: D

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Explanation:

Multiply the first variable in the first set of parentheses with the first variable in the second set of parentheses (x x x = x2).

Next, multiply the first variable in the first set of parentheses with the second number in the second set of parentheses (x x 2 = 2x). So far, the results are x2+ 2x.

Now, multiply the second number in the first set of parentheses to the first variable in the second set of parentheses (4 x x = 4x).

Next, multiply the second variable in the first set of parentheses to the second number in the second set of parentheses (4 x 2 = 8).

The solution is x2+ 2x + 4x + 8. Combining the like terms results in x2+ 6x + 8.

QUESTION 5

?820 is a number between _____.

A. 20 and 30

B. 10 and 20

C. 80 and 90

D. 40 and 50

Correct Answer: A

Explanation:

202= 400, and 302= 900, so the range of 20 to 30 is correct.

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