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QUESTION 1

3/27 =

A. 1/9

B. 1/10

C. 1/2

D. 3/18

E. 2/7

Correct Answer: A

Explanation: Divide numerator and denominator by 3.

QUESTION 2

A T-shirt that was selling for $24 has had its price reduced by 15%. How much does it cost now?

A. $20.75

B. $20.40

C. $20

D. $21

E. $21.50

Correct Answer: B

Explanation: Multiply the original price by 0.15, and then subtract this amount from the original price.

QUESTION 3

Written in scientific notation, the number 173,000,000,000 is:

A. 17.3×10^{10}

B. 173×10^9

C. 1.73×10^{11}

D. 1.73×10^{10}

E. 172×10^{12}

Correct Answer: C

Explanation: Place a decimal point at the end of the number and then move it eleven places to the left, until it creates a number between one and ten.

QUESTION 4

What is the volume of a rectangular solid that is 8 inches long, 6 inches wide, and 4 inches tall?

A. 192 cubic inches

B. 184 cubic inches

C. 194 square inches

D. 192 square inches

E. 194 cubic inches

Correct Answer: A

Explanation: Volume is found by multiplying length, width, and height.

QUESTION 5

Solve: 3/5 – (-2) =

A. - 12/5

B. 5/13

C. - 13/5

D. 13/5

E. - 5/13

Correct Answer: D

Explanation: Subtracting a negative number is the same as adding it.

QUESTION 6

Solve and simplify: 2/3 x 3/5 x 5/10 x 6/8 =

A. 0.2

B. 0.5

C. 0.15

D. 0.25

E. 0.333333333

Correct Answer: C

Explanation: Fractions are multiplied by multiplying numerators by numerators and denominators by denominators. Some of the fractions in this problem can be simplified.

QUESTION 7

54 is 75% of what number?

A. 80

B. 75

C. 70

D. 100

E. 72

Correct Answer: E

Explanation: Multiply 54 by 100 and then divide by 75.

QUESTION 8

Albert is driving at 80 miles per hour. How far will he go in 45 minutes?

A. 60 miles

B. 45 miles

C. 80 miles

D. 180 miles

E. 90 miles

Correct Answer: A

Explanation: 45 minutes is three-quarters of an hour, which can be rewritten as the decimal 0.75. Multiply this decimal by his speed.

QUESTION 9

9/20 =

A. 50%

B. 45%

C. 40%

D. 35%

E. 25%

Correct Answer: B

Explanation: Multiply both 9 and 20 by 5.

QUESTION 10

Gerald received the following test scores in math class: 76, 86, 89, 81, and 99. What was Gerald\\'s average test score,
rounded to the nearest point?

A. 85

B. 88

C. 84

D. 87

E. 86

Correct Answer: E

Explanation: Add all of the scores together and divide by the number of scores.

QUESTION 11

A number is multiplied by 6 and then has 4 subtracted from it. The answer is 14. Which of the following equations
matches these statements?

A. 14 = 4 - 6x

B. 4x – 6 = 14

C. 6x – 4 = 14

D. 6(x – 4) = 14

E. -6x = -14

Correct Answer: C

Explanation: In this equation, the order of operations will dictate that the multiplication takes place before the
subtraction.

QUESTION 12

John will be x in 7 years. How old was he last year?

A. x + 7

B. 1 – x - 7

C. x + 8

D. x - 8

E. 7x

Correct Answer: D

Explanation: The target age can be found by subtracting first seven and then one year from x.

QUESTION 13

17/68 =

A. 30%

B. 1/3

C. 45%

D. 1/4

E. 2/5

Correct Answer: D

Explanation: The simplest form of this fraction can be found by dividing both sides by 17.

QUESTION 14

Rex is four times as old as Ted. If the sum of their ages is 30, how old is Ted?

A. 5

B. 8

C. 10

D. 6

E. 12

Correct Answer: D

Explanation: The ratio of Rex\\'s age to Ted\\'s age is 4:1; the sum of their ages can be divided by the total number of units in this ratio, 5. This indicates that Rex is 24 and Ted is 6.

QUESTION 15

If Dave drives at a steady speed of 50 miles per hour, how long will it take him to drive 10 miles?

A. 20 minutes

B. 10 minutes

C. 15 minutes

D. 30 minutes

E. 12 minutes

Correct Answer: E

Explanation: Since there are 60 minutes in an hour, this problem can be solved with the following equation: 50/60 = 10/x

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