PRACTICE QUIZ 2

1. How many times can 5 go into -255?

   A. 51

   B. -5

   C. 0

   D. -51

2. A young boy receives 344 pieces of candy on Halloween after a long night of Trick-or-Treating. If he went to all 86 houses in his neighborhood, on average how many pieces of candy did each house give him?

   A. 3

   B. 4

   C. 5

   D. 6

3. Which number is not a factor of 1,155?

   A. 22

   B. 33

   C. 55

   D. 77

4. Which best describes the number of multiples of 10?

   A. 1

   B. 10

   C. 100

D. An unlimited number

5. Which number is prime?

   A. 34

   B. 106

   C. 191

   D. 208

PRACTICE QUIZ 2 — ANSWER KEY

1. D.   This question involves another way to express division. In this case, it is -255 ÷ 5. When dividing signed numbers, remember that if the dividend and divisor have different signs, the quotient is negative. Otherwise, the process is the same as dividing whole numbers. The division algorithm yields -51. See Lesson: Standard Operations & Concepts.

2. B.   The boy received 4 pieces of candy from each house because 344 pieces ÷ 86 houses = 4 pieces. See Lesson: Standard Operations & Concepts.

3. A.   To determine whether a number is a factor of another number, divide the second number by the first number. If the quotient is whole, the first number is a factor. In this case, 1,155 is not divisible by 22. See Lesson: Factors and Multiples.

4. D.   The multiples of 10 are the set {⋯, -30, -20, -10, 0, 10, 20, 30,⋯}. Therefore, the number of multiples is unlimited. See Lesson: Factors and Multiples.

5. C.   A prime number has only 1 and itself as factors. All even numbers (except 2) are composite because they have 2 as a factor. By elimination, only answer C is a prime number. See Lesson: Factors and Multiples.

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