Level 1: Decimal Fractions Pretest

Question 1:

The Kentucky Derby horse race is expected to have 10 times the number of spectators as the Kentucky Oaks horse race. If 13,000 people attended the Kentucky Oaks, how many people are expected to attend the Kentucky Derby?

a. 1,300

b. 13,010

c. 130,000

d. 1,300,000

Question 2:

There are 200 paperclips in a box. A case contains 50 boxes of paperclips. What is the equivalent of 200 × 50?

a. 10^3

b. 10^4

c. 10^5

d. 10^6

Question 3:

Look at this expression.

$$(6 \times 1) + \left(5 \times \frac{1}{100}\right) + \left(8 \times \frac{1}{1000}\right)$$

What number does this expression represent?

a. 0.658

b. 6.0058

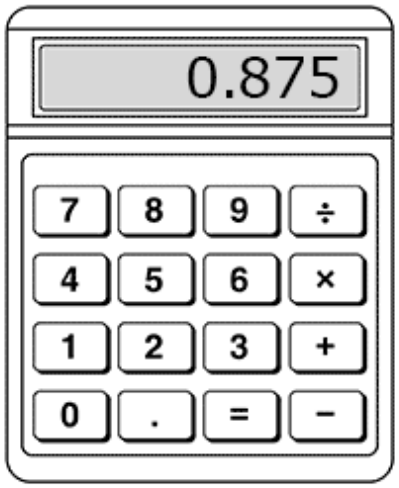
c. 6.058

d. 6.58

Continue ➡

Question 4:

Janet divided 7 by 8 on her calculator and got the answer shown.



What is her answer rounded to the nearest hundredth?

a. 0.9

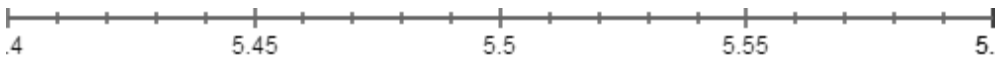
b. 0.88

c. 0.8750

d. 0.87

Question 5:

This distance between two poles is 5.46 meters. What is the distance rounded to the nearest tenth of a meter? _____



Question 6:

A baby elephant weighs 159.6 pounds at birth. As an adult, the elephant will weigh 10^2 times its birth weight. How many pounds will the adult elephant weigh?

a. 159.600 pounds

b. 1,596.0 pounds

c. 15,960.0 pounds

d. 159,600.0 pounds

Continue ➡

Question 7:

Which expression represents 5.027?

a. $5 \times 1 + 2 \times \frac{1}{10} + 7 \times \frac{1}{1000}$

b. $5 \times 10 + 2 \times \frac{1}{10} + 7 \times \frac{1}{1000}$

c. $5 \times 1 + 2 \times \frac{1}{100} + 7 \times \frac{1}{1000}$

d. $5 \times \frac{1}{10} + 2 \times \frac{1}{100} + 7 \times \frac{1}{1000}$

Question 8:

Put the following numbers in order from least to greatest.

___ 6.378

___ 6.49

___ 6.38

___ 6.4

Question 9:

Four students at Central High School raced against one another in the 100-meter dash. Their times are listed.

Jamar: 12.402 seconds
Marco: 12.36 seconds
Sean: 12.5 seconds
Tyler: 12.56 seconds

Who ran the race in the least amount of time?

a. Jamar

b. Marco

c. Sean

d. Tyler

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Question 10:

A type of fly can be 0.139 millimeter long. What is this length rounded to the nearest tenth of a millimeter?

a. 0.1

b. 0.13

c. 0.14

d. 0.2

Question 11:

A label on a store shelf gives the unit price of a box of cereal as $0.173 per ounce. What is the unit price rounded to the nearest hundredth of a dollar?

$ _____ per ounce

Question 12:

What is the decimal value of $5 \div 10^3$?

_____

Question 13:

There are 4000 seats in a theater. The theater has one-tenth the number of seats as a stadium. How many seats does the stadium have?

a. 40

b. 400

c. 40,000

d. 400,000

Continue ➡

Question 14:

Which of these is equivalent to 20 × 500?

a. 10^3

b. 10^4

c. 10^5

d. 10^6

Question 15:

A part for a machine is one and six hundred eighty-two thousandths inches wide. What is this number written in expanded form?

a. $1 + \left(600 \times \frac{1}{10}\right) + \left(82 \times \frac{1}{1000}\right)$

b. $1 + \left(6 \times \frac{1}{100}\right) + \left(82 \times \frac{1}{1000}\right)$

c. $1 + \left(600 \times \frac{1}{10}\right) + \left(80 \times \frac{1}{100}\right) + \left(2 \times \frac{1}{1000}\right)$

d. $1 + \left(6 \times \frac{1}{10}\right) + \left(8 \times \frac{1}{100}\right) + \left(2 \times \frac{1}{1000}\right)$

Stop