Place Value Assessment

Name _____

1. Consider the equation. Complete the sentence.
$600 \times 10 = 6{,}000$
The product has one more zero because the 6 has to move to a place whose value is _____.

Ⓐ the same

Ⓑ $\frac{1}{10}$ as much

Ⓒ 10 times as much

Ⓓ twice as much

2. Multiply.
15×10^2

Ⓐ 15

Ⓑ 30

Ⓒ 150

Ⓓ 1,500

3. Write the number in standard form.
$1 \times 100 + 3 \times 10 + 5 \times 1 + 2 \times \frac{1}{10} + 5 \times \frac{1}{100}$

Ⓐ 13,525

Ⓑ 1,352.5

Ⓒ 135.25

Ⓓ 13.525

4. Write the number in word form.
$2 \times 10 + 5 \times 1 + 1 \times \frac{1}{10} + 4 \times \frac{1}{100} + 6 \times \frac{1}{1000}$

Ⓐ Twenty-five and one hundred forty-six thousandths

Ⓑ Twenty-five and one hundred forty-six tenths

Ⓒ Twenty-five and one hundred forty-six hundredths

Ⓓ Two hundred fifty-one and forty-six thousandths

5. Which number is greater than 12.56?

Ⓐ 12.65

Ⓑ 12.556

Ⓒ 12.55

Ⓓ 12.54

6. Which statement is true?

Ⓐ $234.11 < 234.1$

Ⓑ $0.44 > 0.404$

Ⓒ $0.351 > 0.36$

Ⓓ $0.055 < 0.045$

7. Consider the equation. Complete the sentence.
$60.1 \div 10 = 6.01$
Dividing by 10 moves the decimal point to the left because 6 and 1 each have to move to a place whose value is _____ .

Ⓐ the same

Ⓑ $\frac{1}{10}$ as much

Ⓒ 10 times as much

Ⓓ twice as much

8. Divide.
$15 \div 10^3$

Ⓐ 15,000

Ⓑ 1,500

Ⓒ 0.15

Ⓓ 0.015

9. Round 5.821 to the nearest hundredth.

Ⓐ 5.83

Ⓑ 5.82

Ⓒ 5.8

Ⓓ 5.7

Name _____

10. Consider the following two lists of numbers.
I. 2.0, 2.00, 2.000
II. 2.0, 20.0, 200.0
In each list, decide if adding zeros changed the value of the 2. Explain.

11. Ashley ran a total of 15.23 kilometers this week. To the nearest tenth of a kilometer, about how far did she run? Make a drawing and use it to explain your reasoning.