3.1.1 Representing, Comparing, and Ordering Decimals

Write each decimal number in words.

1. 7.0893

2. 12.205

Write each as a decimal in standard form.

3. seven and fifteen hundredths

4. three and one hundred six thousandths

5. **Astronomy** Two meteorites landed in Mexico. The one found in Bacuberito weighed 24.3 tons, and the one found in Chupaderos weighed 26.7 tons. Which meteorite weighed more?

Order the decimals from least to greatest.

6. 15.25, 15.2, 15.5

7. 1.56, 1.62, 1.5

8. 6.7, 6.07, 6.23

3.1.2 Rounding and Estimating Decimals

9. **Multi-Step** Before Mike's trip, the odometer in his car read 146.8 miles. He drove 167.5 miles to a friend's house and 153.9 miles to the beach. About how many miles did the odometer read when he arrived at the beach?

10. The rainfall in July, August, and September was 16.76 cm, 13.97 cm, and 15.24 cm, respectively. About how many total centimeters of rain fell during those three months?

Estimate each product or quotient.

11. 9.64×1.769

12. $11.509 \div 4.258$

13. $19.03 \div 2.705$

3.1.3 Adding and Subtracting Decimals

14. **Sports** During a diving competition, Phil performed two reverse dives and two dives from a handstand position. He received the following scores: 8.765, 9.45, 9.875, and 8.025. What was Phil's total score?

15. Brad works after school at a local grocery store. How much did he earn in all for the month of October?

Brad's Earnings for October				
Week	1	2	3	4
Earnings	$123.48	$165.18	$137.80	$140.92

Decimals

Introduction to Decimals

Find each sum or difference.

16. $7.2 + 1.8$ **17.** $8.5 - 7$ **18.** $3.3 + 0.7$ **19.** $15.9 + 2.1$

20. $7 - 0.6$ **21.** $7.55 - 3.25$ **22.** $21.4 + 3.6$ **23.** $5 - 2.7$

Evaluate $9.67 - x$ for each value of x.

24. $x = 1.52$ **25.** $x = 3.8$ **26.** $x = 7.21$ **27.** $x = 0.635$

28. $x = 6.9$ **29.** $x = 1.001$ **30.** $x = 8$ **31.** $x = 9.527$