

Unit 4 Decimals Study Guide

Name _____ # _____


Fluency and Place Value:

1. In the number 3. 244; explain the difference between the value of the two 4s.	2. 321.456 What is the value of the 1? _____ What place value is the 5 in? _____
3. Write a number that contains two fours, a decimal and one 4 is 10 times smaller than the other.	4. Write a number that is 1/10 the size of 40.

Computation:

5. Fill the blank with the inequality symbol (<, >, =) that makes the statement true. 4.302 _____ 4.320	6. Round 5.96 to the nearest tenth. _____ Round 43.92 to the nearest tenth. _____
7. $103.21 + 97.05 =$ _____	8. _____ = $36.12 - 17.365$
9. Write this number in standard form. $(3 \times 10) + (6 \times 1) + (4 \times \frac{1}{10}) + (9 \times \frac{1}{100}) =$	10. Write this number in expanded form. 4,568.13

Application: Read each problem carefully and solve.

<p>11. Whitney ran 13.56 miles and Brianna ran 14.6 miles. Round each runner's mileage to the nearest WHOLE mile.</p> <p>Whitney _____</p> <p>Brianna _____</p>	<p>12. Scott solved the following problem this way: $36.12 - 4.9 =$ Is Scott Correct? Why or Why Not?</p> $\begin{array}{r} 36.12 \\ - 4.9 \\ \hline 35.63 \end{array}$
<p>13. Mrs. Clark bought 3.4 yards of ribbon. Mrs. Bell bought 4.63 yards of ribbon. How much ribbon did they purchase together?</p>	<p>14. The Smiths went on a trip. Dad filled up the car with 12.5 gallons of gas. 3 hours into the trip they had used 7.48 gallons of gas. How much gas remains in the tank?</p>
<p>15. The 5th grade at BGIS held a bake sale. They raised \$1,345.93 for the school. However, they had to pay for supplies. They spent \$412.79 on supplies for the sale. How much profit (money after supplies) did they make?</p>	<p>16. Erika drank 3.25 pints of water. How much water did she drink rounded to the nearest tenth?</p>
<p>17. Brandon estimated that $36.7 + 67.3$ would equal close to 100 because he rounded 36.7 to 30 and 67.3 to 70. Is he correct? Explain your thinking.</p>	<p>18. Tom wants to put a fence around his garden. Find the perimeter of his garden so he knows how much fencing to buy.</p> <div><div>15.4 ft</div><div>4.75 ft</div></div>
<p>19. Four friends are having a contest to see who can drink the most water. Put the friends and their water consumption in order from least to greatest. Anna = 41.5 fl. oz, Ellie = 14.5 fl. oz, Riley = 41.05 fl. oz and Georgia = 40.15 fl. oz.</p>	<p>20. Mark bought two shirts at store. Each shirt was 12.95. He paid with a \$20 dollar bill and a \$10 bill. How much change should he get back?</p>