Name _____

Reteaching
14-4

Estimating Percent

Estimate 8% of 300,000.

Round the percent.
$8\% \approx 10\%$

Think of the equivalent decimal.
$10\% = 0.1$

Multiply.
$0.1 \times 300{,}000 = 30{,}000$

Estimate 27% of 297.

Round both numbers.
$27\% \approx 30\%$ $297 \approx 300$

Think of an equivalent decimal.
$30\% = 0.3$

Multiply.
$0.3 \times 300 = 90$

To multiply by 0.1, move the decimal point one place to the left.

$0.1 \times 50 = 5$ $0.1 \times 4700 = 470$ $0.1 \times 3{,}659 = 365.9$

To multiply by a multiple of 0.1, such as 0.3, break apart the number.
$0.3 = 0.1 \times 3$

Multiply one step at a time.
$0.1 \times 300 = 30$ $30 \times 3 = 90$

Round each percent, then write the equivalent decimal.

1. 41% _____ **2.** 88% _____ **3.** 76% _____

4. 22% _____ **5.** 37% _____ **6.** 59% _____

Break apart each decimal so the numbers are easier to multiply.

7. 0.4 _____ **8.** 0.9 _____ **9.** 0.6 _____

Estimate each percent.

10. 9% of 20 _____ **11.** 21% of 31 _____ **12.** 31% of 37 _____

13. 38% of 49 _____ **14.** 49% of 101 _____ **15.** 61% of 19 _____

16. 59% of 304 _____ **17.** 70% of 471 _____ **18.** 84% of 149 _____

19. Number Sense What is another way to estimate 51% of 42?

_____

20. Reasoning If 10% of a number is 100, what is 15% of that number? Explain how you determined your answer.

_____

_____