REVIEW: Rounding Whole Numbers

Key Concept and Vocabulary

round up — Decision digit is 5, 6, 7, 8, or 9.
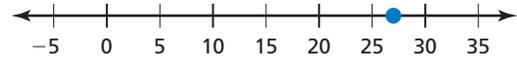
round down — Decision digit is 0, 1, 2, 3, or 4.

Rounding

Visual Model

To round to the *nearest ten,* choose the closest multiple of ten.

27 is closer to 30 than to 20. So, 27 rounds to 30.

Skill Examples

1. To the *nearest ten:*
   113 rounds to 110.

2. To the *nearest hundred:*
   182 rounds to 200.

3. To the *nearest thousand:*
   4506 rounds to 5000.

Application Example

4. An appraiser adds the areas of the rooms in a house and gets 1548 square feet. Estimate this to the nearest ten square feet.

   To the *nearest ten:* 1548 rounds to 1550.

   The house has about 1550 square feet.

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Check your answers at BigIdeasMath.com.

Round to the nearest ten. (The symbol ≈ means "is approximately equal to.")

5. $57 \approx$ __60__

6. $142 \approx$ __140__

7. $345 \approx$ __350__

8. $189 \approx$ __190__

Round to the nearest hundred.

9. $57 \approx$ __100__

10. $142 \approx$ __100__

11. $345 \approx$ __300__

12. $189 \approx$ __200__

Round to the nearest thousand.

13. $23,450 \approx$ __23,000__

14. $3623 \approx$ __4000__

15. $872 \approx$ __1000__

16. $45,214 \approx$ __45,000__

Round the area of the figure to the nearest ten.

17. 86 ft²

    Area ≈ __90 ft^2__

18. 124 cm²

    Area ≈ __120 cm^2__

19. 23 in.²

    Area ≈ __20 in.^{2}__

20. 77 m²
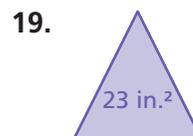
    Area ≈ __80 m^2__

21. **NATIONAL DEBT** In February of 2009, the national debt for the United States was $10,770,358,064,879. Round this debt to the nearest billion dollars. __$10,770,000,000,000__

22. **POPULATION OF TEXAS** To the nearest thousand, the population of Texas was estimated to be 24,327,000 in 2008. Describe the actual population that Texas could have had in 2008.
    The actual population of Texas was between 24,326,500 and 24,327,499.