

Name: _____



PRACTICE



TUTORIAL

Practice & Problem Solving



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In 11–18, find the equivalent measure. Round to the nearest tenth.

11. 9 qt \approx L

12. 2 gal \approx L

13. 2 in. \approx cm

14. 5 km \approx mi

15. 10 L \approx qt

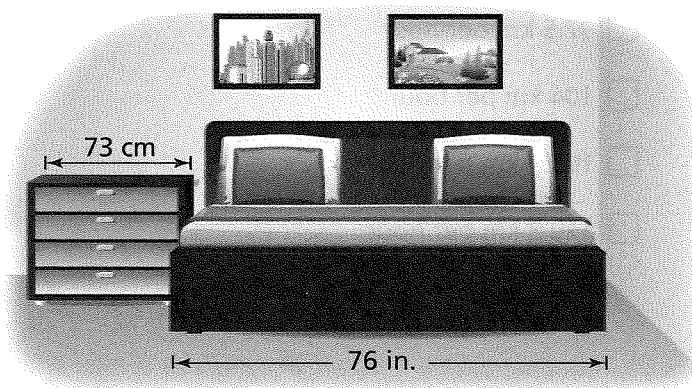
16. 5.5 t \approx T

17. 50 lb \approx kg

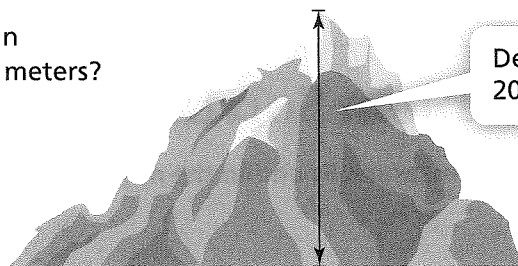
18. 10 oz \approx g

19. A chef at a restaurant uses 12 pounds of butter each day. About how many grams of butter does the chef use each day? Use the conversion factors $\frac{16 \text{ ounces}}{1 \text{ pound}}$ and $\frac{28.35 \text{ grams}}{1 \text{ ounce}}$.

20. **Reasoning** Simone wants to know whether a new chest of drawers will fit next to her bed. The chest she would like to buy is 73 centimeters wide. She knows that her room is 86 inches wide. The bed is 76 inches wide. Will the chest fit next to her bed? Explain.



21. **Be Precise** Denali is the highest mountain in the United States. What is its height in meters? Round to the nearest whole number.



Denali is approximately 20,320 ft high.

22. **Construct Arguments** Francesca wants to convert 1 foot to centimeters. Use what you know about customary units to explain how she can do this.

23. **Higher Order Thinking** At the state fair, a person must be at least 138 centimeters tall to ride the roller coaster. Billy wants to ride the coaster. He is 4 feet 7 inches tall. Is Billy tall enough to ride the coaster? Explain.

24. Paul's car holds a maximum of 19 gallons of gas. About how many liters of gas does Paul need to fill his gas tank?



Assessment Practice

25. The posted speed limit is 65 miles per hour. Choose all the metric measures that are faster than 65 miles per hour.
- 65 km per hour
 - 97.5 km per hour
 - 104 km per hour
 - 105.7 km per hour
 - 120.3 km per hour
26. Boys competing in the long jump event must jump at least 15 feet to qualify for the state track and field meet. Choose all the metric measures that are less than 15 feet.
- 6.5 m
 - 5.0 m
 - 4.5 m
 - 3.92 m
 - 3.5 m

