

Name _____ Core ____ Date _____

5.7 Exercises



Vocabulary and Concept Check

1. **VOCABULARY** Is $\frac{10 \text{ mm}}{1 \text{ cm}}$ a conversion factor? Explain.

2. **WRITING** Describe how to convert 2 liters per hour to milliliters per second.

3. **DIFFERENT WORDS, SAME QUESTION** Which is different? Find “both” answers.

Convert 5 inches to centimeters.

Find the number of inches in 5 centimeters.

How many centimeters are in 5 inches?

Five inches equals how many centimeters?

Copy and complete the statement. Round to the nearest hundredth if necessary.


10. $14 \text{ m} \approx \square \text{ ft}$

12. $64 \text{ lb} \approx \square \text{ kg}$

14. $75.2 \text{ in.} \approx \square \text{ cm}$

16. $15 \text{ cm} \approx \square \text{ in.}$



18. **ERROR ANALYSIS** Describe and correct the error in converting the units.


$$\begin{aligned} 8 \text{ L} &\approx 8 \text{ L} \cdot \frac{0.95 \text{ qt}}{1 \text{ L}} \\ &= 8 \cancel{\text{L}} \cdot \frac{0.95 \text{ qt}}{1 \cancel{\text{L}}} \\ &= 7.6 \text{ qt} \end{aligned}$$

Copy and complete the statement using < or >.

24. 1200 g 5 lb


Copy and complete the statement.

  26. $\frac{13 \text{ km}}{\text{h}} \approx \frac{\text{input} \text{ mi}}{\text{h}}$

28. $\frac{63 \text{ mi}}{\text{h}} = \frac{\text{input} \text{ mi}}{\text{sec}}$

34. **BIRDS** The table shows the flying speeds of several birds.

- a. Which bird is the fastest? Which is the slowest?
- b. The peregrine falcon has a dive speed of 322 kilometers per hour. Is the dive speed of the peregrine falcon faster than the flying speed of any of the birds? Explain.



Bird	Speed
Spine-tailed swift	2843.2 m/min
Spur-winged goose	129.1 ft/sec
Eider duck	31.3 m/sec
Mallard	65 mi/h

a. Fastest: _____ Slowest: _____

b. _____



Fair Game Review What you learned in previous grades & lessons

Find the percent of the number. *(Section 5.6)*

37. 25% of 120 38. 65% of 47 39. 120% of 15 40. 3.2% of 80

41. **MULTIPLE CHOICE** What is the area of a parallelogram with a base of 15 centimeters and a height of 12 centimeters? *(Section 4.1)*

- (A) 90 cm^2 (B) 175 cm^2 (C) 180 cm^2 (D) 205 cm^2

37. _____

38. _____

39. _____

40. _____

