

Lesson 12.1

Name _____

Measurement Benchmarks

COMMON CORE STANDARD CC.4.MD.1

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

Use benchmarks to choose the customary unit you would use to measure each.

1. height of a computer

foot

3. length of a semi-truck

2. weight of a table

4. the amount of liquid a bathtub holds

| Customary Units | |
|-----------------|--------|
| ounce | yard |
| pound | mile |
| inch | gallon |
| foot | cup |

Use benchmarks to choose the metric unit you would use to measure each.

5. mass of a grasshopper

6. the amount of liquid a water bottle holds

7. length of a soccer field

8. length of a pencil

| Metric Units | |
|--------------|------------|
| milliliter | centimeter |
| liter | meter |
| gram | kilometer |
| kilogram | |

Circle the better estimate.

9. mass of a chicken egg

10. length of a car

11. amount of liquid a drinking glass holds

50 grams 50 kilograms

12 miles 12 feet

8 ounces 8 quarts

Complete the sentence. Write *more* or *less*.

12. A camera has a length of _____ than one centimeter.

13. A bowling ball weighs _____ than one pound.

Problem Solving

14. What is the better estimate for the mass of a textbook, 1 gram or 1 kilogram?

15. What is the better estimate for the height of a desk, 1 meter or 1 kilometer?

Lesson Check (CC.4.MD.1)

- Which is the best estimate for the weight of a stapler?
 - 4 ounces
 - 4 pounds
 - 4 inches
 - 4 feet
- Which is the best estimate for the length of a car?
 - 4 kilometers
 - 4 tons
 - 4 kilograms
 - 4 meters

Spiral Review (CC.4.NF.4c, CC.4.NF.6, CC.4.MD.5a, CC.4.MD.5b, CC.4.G.2)

- Bart practices his trumpet $1\frac{1}{4}$ hours each day. How many hours will he practice in 6 days? (Lesson 8.4)
 - $8\frac{2}{4}$ hours
 - $7\frac{2}{4}$ hours
 - 7 hours
 - $6\frac{2}{4}$ hours
- Millie collected 100 stamps from different countries. Thirty-two of the stamps are from countries in Africa. What is $\frac{32}{100}$ written as a decimal? (Lesson 9.2)
 - 32
 - 3.2
 - 0.32
 - 0.032
- Diedre drew a quadrilateral with 4 right angles and 4 sides of the same length. What kind of polygon did Diedre draw? (Lesson 10.4)
 - square
 - trapezoid
 - hexagon
 - pentagon
- How many degrees are in an angle that turns through $\frac{1}{2}$ of a circle? (Lesson 11.2)
 - 60°
 - 90°
 - 120°
 - 180°