

Name _____



Homework 12-8

Using Units of Mass

Another Look!

Two metric units for mass are grams (g) and kilograms (kg).

1 kg = 1,000 g

A paperclip has a mass of about 1 gram.

A hardcover book has the mass of about 1 kilogram.

Which unit should you use to measure the mass of a bike?

How many paperclips would have the same mass as a bike? How many books?

The mass of a bike is much greater than the mass of a paperclip.

A kilogram is the most appropriate unit to measure a bike.



In **1** through **11**, choose the more appropriate unit to measure the mass of each item. Write g or kg.

- The mass of a lawn mower is greater than the mass of a book.
The most appropriate unit of measure for a lawn mower is _____.
- The mass of a door key is less than the mass of a book.
The most appropriate unit of measure for a door key is _____.
- The mass of a pineapple is equal to the mass of a book.
The most appropriate unit of measure is _____.
- pumpkin
- gold ring
- robin's egg
- cannonball
- cement block
- spool of thread
- car tire
- shoelace

12. **Explain** Would you be more likely to find the mass of a pen in grams or in kilograms? Explain.

13. The mass of a certain window is 18 kg. What is the mass of 5 of those windows?

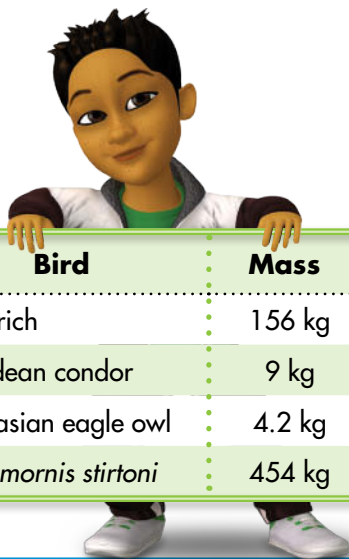
14. **Number Sense** Which is a greater number, the mass of a cat in grams or the mass of the same cat in kilograms?

15. Bella has three different objects whose masses are 500 g, 125 g, and 375 g. Which is the sum of the masses of the objects?


- A 1,000 kg
- B 100 kg
- C 10 kg
- D 1 kg

16. The *Dromornis stirtoni* was once the largest living bird. It is now extinct. The ostrich is now the largest living bird. What is the difference in mass between the *Dromornis stirtoni* and the ostrich?

17. Which has a greater mass, an Andean condor or a Eurasian eagle owl? How much greater?



Bird	Mass
Ostrich	156 kg
Andean condor	9 kg
Eurasian eagle owl	4.2 kg
<i>Dromornis stirtoni</i>	454 kg

18. **Personal Financial Literacy**  A drum set costs \$78.39. Janice can buy it on credit by making 6 payments of \$14. How much more does the drum set cost to buy on credit than to buy with cash? Tell how you found the answer.

19. **Check for Reasonableness** Is it reasonable to say that 10 marshmallows have a mass greater than 1 kilogram?

20. **Extend Your Thinking** Luis said that when his dog was born, she had a mass of 370 g and that when fully grown, his dog had a mass of 37 kg. Diego says that this is not possible, because the dog had a greater mass as a puppy than as an adult. Do you agree? If not, what mistake did Diego make? Explain.

A good explanation is clear, complete, and easy to understand.

