

**LESSON** **Problem Solving**  
**1-3** **Metric Measurements**

**Write the correct answer.**

1. A porcupine has a mass of 27 kg. A cat has a mass of 6,300 g. Which animal has the greater mass?  
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2. A faucet drips at the rate of 50 L per day. At this rate, how many days will it take for the faucet to drip a total of 1 kL?  
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3. The distance from Midwood Library to Midwood Middle School is 0.845 km. The distance from Midwood High School to Midwood Library is 872 m. Which school is closer to the library? How much closer?  
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4. A mouse has a mass of 18 g. A guinea pig has a mass of 0.85 kg. Is the mass of the two animals together greater or less than 1 kg? Explain your answer.  
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**Choose the letter for the best answer.**

The table shows the lengths and masses of some members of the cat family.

Members of the Cat Family		
Name	Length	Mass
Bobcat	864 mm	18,200 g
Jaguar	1.52 m	55 kg
Canada Lynx	91.4 cm	15,900 g
Mountain Lion	1.35 m	85 kg

5. Which cat has the greatest length?  
**A** bobcat  
**B** jaguar  
**C** Canada lynx  
**D** mountain lion
6. Which cat has the least mass?  
**F** bobcat  
**G** jaguar  
**H** Canada lynx  
**J** mountain lion
7. What is the difference in mass between the cat with the greatest mass and the cat with the least mass?  
**A** 66.8 kg  
**B** 69.1 kg  
**C** 7,400 g  
**D** 15,815 g
8. For which two cats is the difference in length closest to 0.5 m?  
**F** bobcat and mountain lion  
**G** bobcat and Canada lynx  
**H** jaguar and mountain lion  
**J** jaguar and Canada lynx