

# Lesson 1 Problem-Solving Practice

## Solve One-Step Addition and Subtraction Equations

**ANIMALS** For Exercises 1–4, use the table.

The average lifespans of several different types of animals are shown in the table.

Average Lifespans of Animals			
Animal	Lifespan (yr)	Animal	Lifespan (yr)
Black bear	18	Guinea pig	4
Dog	12	Puma	?
Giraffe	10	Tiger	16
Gray squirrel	10	Zebra	?

<p>1. The lifespan of a black bear is 3 years longer than the lifespan of a zebra. Write an addition equation that you could use to find the lifespan of a zebra.</p>	<p>2. Solve the equation you wrote in Exercise 1. What is the lifespan of a zebra?</p>
<p>3. The lifespan of a guinea pig is 8 years shorter than the lifespan of a puma. Write a subtraction equation that you could use to find the lifespan of a puma.</p>	<p>4. Solve the equation you wrote in Exercise 3. What is the lifespan of a puma?</p>
<p>5. <b>TECHNOLOGY</b> A survey of teens showed that teens in Pittsburgh aged 12–17 spend 15.8 hours per week online. Teens in Miami/Ft. Lauderdale spend 14.2 hours per week online. Write and solve an addition equation to find the difference in time spent online by teens in these cities.</p>	<p>6. <b>SPORTS</b> Annika Sorenstam won the 2006 MasterCard Classic with a final score of 8 under par, or <math>-8</math>. Her scores for the first two of the three rounds were <math>-5</math> and <math>-1</math>. What was Ms. Sorenstam's score for the third round?</p>

## Lesson 2 Problem-Solving Practice

### Multiplication and Division Equations

For Exercises 1–8, write an equation. Then solve the equation.

<p><b>1. EARNINGS</b> Monica earned twice as much as Samuel mowing lawns. If Monica earned \$48, how much did Samuel earn?</p>	<p><b>2. CHOIR</b> The number of eighth graders in choir is three times the number of seventh graders. If there are 48 eighth graders in choir, how many seventh graders are in choir?</p>						
<p><b>3. CARS</b> The cost of 6 motorcycles is equal to the cost of one SUV. If the SUV costs \$30,000, find the cost of one motorcycle.</p>	<p><b>4. JUMP ROPES</b> Carmen has a rope 54 feet long. She wants to cut it into 6-foot lengths to make jump ropes for the members of the jump roping team. How many jump ropes can Carmen make?</p>						
<p><b>5. TAE KWON DO</b> There are 8 competitors in each ring for a tae kwon do tournament. If there are 96 competitors in the tournament, how many rings do they need?</p>	<p><b>6. RAINFALL</b> The amount of rainfall on Monday and Thursday is shown in the table. If the same amount of rain that fell on Monday fell for 3 days and the same amount that fell on Thursday fell for 2 days, how much rain would fall over those 5 days?</p> <table border="1"> <thead> <tr> <th>Day</th> <th>Monday</th> <th>Thursday</th> </tr> </thead> <tbody> <tr> <td>Rain (in.)</td> <td>0.50</td> <td>0.25</td> </tr> </tbody> </table>	Day	Monday	Thursday	Rain (in.)	0.50	0.25
Day	Monday	Thursday					
Rain (in.)	0.50	0.25					
<p><b>7. GERANIUMS</b> Mary wants to put 4 geraniums in each pot. If she has 8 pots, how many geraniums should she buy?</p>	<p><b>8. HOMES</b> The McClarens sold their house in Orlando, Florida, for \$300,000. They split the income evenly among their four children. How much did each child get?</p>						