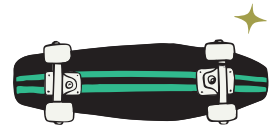Answer Key

HEATHER'S SKATE TEAM

WRITING AND EVALUATING **EXPRESSIONS**

Heather loves skateboarding and wants to start a skate team! For each problem below, write two different expressions that represent the situation. Then, evaluate one of your expressions for the given value.

1. To find members for her skate team, Heather prints flyers to display around town. She posts 6 flyers at her school and f flyers at each of the 3 nearest skate parks. Write two different expressions that represent the total number of flyers posted.

SAMPLE ANSWERS

$6 + f + f + f$
$6 + 3f$

Find the total number of flyers posted if f = 5.

21 flyers

2. Robbie sees one of the flyers at school and decides to join the team. Before the first practice, he goes shopping at Sk8 Shop and buys 2 skateboard stickers and a pair of skate shoes. Each sticker costs d dollars, and the skate shoes cost $72. Robbie has a coupon for 20% off. Write two different expressions that represent the cost of the purchase after the discount.

SAMPLE ANSWERS

$(2d + 72) - 0.2(2d + 72)$
$0.8(2d + 72)$

Find the cost after the discount if d = 1.50.

$60

3. Heather is excited to welcome Robbie and 10 other new members onto her team. The team decides to make a video to submit for entry into competitions. Each of the team members will get s seconds to showcase their skateboarding skills, along with a two-second biography slide. Write two different expressions that represent the total length of the video.

SAMPLE ANSWERS

$12(s + 2)$
$12s + 24$

Find the total length of the video, in seconds, if s = 10.

144 seconds

4. The team is invited to their first competition! Heather designs a T-shirt with a team logo for each team member to wear at the competition. She orders 4 small, 6 medium, and 2 large T-shirts. The price of each T-shirt is t dollars, and the sales tax rate is 6%. Write two different expressions that represent the total cost of the T-shirts, including tax.

SAMPLE ANSWERS

$1.06(12t)$
$12t + 0.06(12t)$

Find the total cost of the T-shirts if t = 9.

$114.48