

## Homework & Practice 6-1

### Solve Comparison Situations

#### Another Look!

Write an equation to represent each comparison problem.  
Find the value of the variable that makes the equation true.

#### Addition

The Tigers practice 26 hours a week more than the Bucks. The Bucks practice 13 hours a week. How many hours a week do the Tigers practice?

$$13 + 26 = h$$

$$h = 39 \text{ hours}$$

The Tigers practice 39 hours each week.

#### Multiplication

The Tigers practice 3 times as many hours a week as the Bucks. The Bucks practice 13 hours a week. How many hours a week do the Tigers practice?

$$3 \times 13 = h$$

$$h = 39 \text{ hours}$$

The Tigers practice 39 hours each week.

For **1–6**, complete the comparison sentence. For **1–4**, find the value of the variable that makes the sentence true.

You can use *times as many as* or *more than to compare quantities*.



- Jessica has 7 times as many paint brushes as Mike. Mike has 14 paint brushes. How many paint brushes,  $p$ , does Jessica have?  
 $p$  is 7 \_\_\_\_\_ 14.  
 $p =$  \_\_\_\_\_
- Karin has 461 songs downloaded. Joe has 123 more songs downloaded than Karin. How many songs,  $s$ , does Joe have?  
 $s$  is 123 \_\_\_\_\_ 461.  
 $s =$  \_\_\_\_\_
- David collected 617 cards. Sam collected 3 times as many cards as David. How many cards,  $c$ , does Sam have?  
 $c$  is 3 \_\_\_\_\_ 617.  
 $c =$  \_\_\_\_\_
- Brandon bought 192 balloons. Adam bought 118 more balloons than Brandon. How many balloons,  $b$ , did Adam buy?  
 $b$  is 118 \_\_\_\_\_ 192.  
 $b =$  \_\_\_\_\_
- Tammy worked 618 hours last year. Louie worked 487 hours last year.  
Tammy worked \_\_\_\_\_ more hours last year than Louie.
- Stella saved \$81. Her sister saved \$9.  
Stella saved \_\_\_\_\_ times as much as her sister.

7. **Algebra** Martin has 12 times as many baseball cards as Josie. Josie has 29 more cards than Kal. How many baseball cards does Martin have? Write and solve equations.

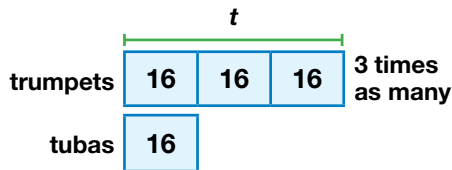


Kal has 28 baseball cards.

8. Matt has 14 times as many cards as Kal. How many cards does Matt have?

For 9–10, use the table at the right.

9. A marching band has 3 times as many trumpet players as tuba players. How many trumpet players are there? Write and solve an equation.



Brass Section	
Trombones	18
French horns	12
Trumpets	$t$
Tubas	16

10. **Higher Order Thinking** The percussion section has four times as many musicians as the trombones and French horns combined. How many musicians are in the percussion section? Write and solve equations.

## © Common Core Assessment

11. Select all the sentences that show a comparison using addition.

- $j$  is 60 more than 17.
- 8 times as many as 50 is  $w$ .
- A watermelon costs \$4 more than a bag of apples. A bag of apples costs \$5. How much does a watermelon cost?
- Sharif has 8 yen in his money collection. He has twice as many pesos. How many pesos does Sharif have?
- 12 more than 20 is  $j$ .

12. Select all the sentences that can be represented by the equation  $14 \times 82 = v$ .

- 82 more than 14 is  $v$ .
- 14 times as many as 82 is  $v$ .
- Linda had 82 violets and Carrie had 14 times as many. How many violets did Carrie have?
- Ben takes 82 pictures. Ella takes 14 more. How many pictures does Ella take?
- 14 less than 82 is  $v$ .