Practice   Video   Tools   Games

Another Look!

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

Addition

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

$13 + 26 = h$

$h = 39$ hours

The Tigers practice 39 hours each week.

Multiplication

The Bucks practice 13 hours a week. The Cougars practice c hours a week, which is 2 times as many as the Bucks. How many hours a week do the Cougars practice?

$2 \times 13 = c$

$c = 26$ hours

The Cougars practice 26 hours each week.

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

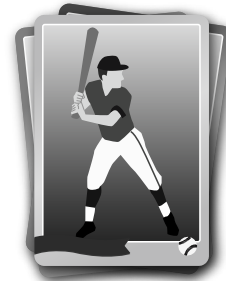You can use *times as many as* or *more than* to compare quantities.

1. Jessica cleaned 7 times as many paint brushes as Mike. Mike cleaned 14 paint brushes. Let p = the number of paint brushes Jessica cleaned.

p is _____

$p =$ _____

2. Karin has 461 songs downloaded. Joe has 123 more songs downloaded than Karin. Let s = the number of songs Joe has downloaded.

s is _____

$s =$ _____

3. David collected 617 cards. Sam collected 3 times as many cards as David. Let c = the number of cards Sam has.

c is _____

$c =$ _____

4. Brandon bought 192 balloons. Adam bought 118 more balloons than Brandon. Let b = the number of balloons Adam bought.

b is _____

$b =$ _____

5. Tammy's dad worked 618 hours in half a year. Louie's mom worked 487 hours in half a year.

_____

_____

6. Stella saved $81. Her sister saved $9.

_____

_____

7. **Algebra** Martin has 10 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.

8. Matt has 9 times as many cards as Kal. How many cards does Matt have?

Kal has 28 baseball cards.

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, t, are there? Write and solve an equation.

t

| trumpets | 16 | 16 | 16 | 3 times as many |
| tubas | 16 | | | |

Brass Section	
DATA	
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, m, are in the percussion section? Write and solve equations.

Assessment Practice

11. Select all the sentences that show a comparison using addition. 4.0A.1.2

☐ 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 $4 \times 8 = v$. 4.0A.1.2

☐ 8 more than 4 is v.

☐ 4 times as many as 8 is v.

☐ Linda had 8 violets and Carrie had v violets, which was 4 times as many.

☐ Ben takes 8 pictures. Ella takes v pictures, which is 4 more.

☐ 4 less than 8 is v.