Writing and Solving Equations from Situations

1. Enrique and Levi together have 386 trading cards. If Enrique has 221 trading cards, how many cards does Levi have? Write and solve an *addition* equation to find how many trading cards are Levi's.

2. The total time to burn a CD is 18 minutes. Last weekend, Demitri spent 90 minutes burning CDs. Write and solve a multiplication equation to find the number of CDs Demitri burned last weekend.

3. Kerry and Tya are sharing a pack of stickers. Each girl gets 11 stickers. Write and solve a division equation to find how many total stickers there are.

4. Alejandra spent her birthday money on a video game that cost $24, a controller for $13, and a memory card for $16. The total tax was $3. Write and solve an equation to find how much money Alejandra gave the cashier if she received 4 dollars in change.

Problem Solving

1. The equation $7h = 63$ can be used to find how many hours h a person needs to work to earn \$63 at \$7 per hour. How many hours does a person need to work to earn \$63? (Lesson 1)

2. The equation $18 + p = 34$ represents the sum of Reese's and Ana's ages, where p represents Reese's age. How old is Reese? (Lesson 1)

3. When Sean stands on a box, he is 10 feet tall. If the box is 4 feet tall, write and solve an addition equation to find Sean's height. (Lesson 2)

4. CCSS **Use Math Tools** The amount of money Felise has in her account is shown. She has \$8 less than her brother. Write and solve a subtraction equation to find how much money her brother has. (Lesson 3)

BANK STATEMENT	
Felise Smith 1234 Street Town, US 00200	
CHECKING ACCOUNT	
Previous Balance:	\$0.00
Checks:	\$0.00
Withdrawals:	\$0.00
Deposits:	\$39.00
Current Balance:	\$39.00

5. A store is selling blank CDs in packages of 25 for \$5. Write and solve a multiplication equation to find the cost of one blank CD. (Lesson 4)

6. The speed limit in front of Meadowbrook Middle School is shown. It is one third the speed limit of a major street two blocks away. Write and solve a division equation to find the speed limit of the major street. (Lesson 5)

7. Milo is baking chicken and the preparation time is 10 minutes, which is one fourth of the baking time. Write and solve a division equation to find the baking time. (Lesson 5)

Writing and Solving Equations from Situations

1. Enrique and Levi together have 386 trading cards. If Enrique has 221 trading cards, how many cards does Levi have? Write and solve an *addition* equation to find how many trading cards are Levi's.

$L + 221 = 386$
$-221 \quad -221$
$L = 165$

Levi has 165 cards.

2. The total time to burn a CD is 18 minutes. Last weekend, Demitri spent 90 minutes burning CDs. Write and solve a multiplication equation to find the number of CDs Demitri burned last weekend.

$18 \cdot C = 90$
$\div 18 \quad \div 18$
$C = 5$

5 CDs

3. Kerry and Tya are sharing a pack of stickers. Each girl gets 11 stickers. Write and solve a division equation to find how many total stickers there are.

$\frac{S}{2} = 11 \cdot 2$

$S = 22$

22 stickers

4. Alejandra spent her birthday money on a video game that cost $24, a controller for $13, and a memory card for $16. The total tax was $3. Write and solve an equation to find how much money Alejandra gave the cashier if she received 4 dollars in change.

$m - 24 - 13 - 16 - 3 = 4$

$m - 56 = 4$
$+56 \quad +56$
$m = 60$

$60

Problem Solving

1. The equation $7h = 63$ can be used to find how many hours h a person needs to work to earn \$63 at \$7 per hour. How many hours does a person need to work to earn \$63? (Lesson 1)

$7h = 63$
$\div 7 \quad \div 7$
$h = 9$ hours

2. The equation $18 + p = 34$ represents the sum of Reese's and Ana's ages, where p represents Reese's age. How old is Reese? (Lesson 1)

$18 + p = 34$
$-18 \quad -18$
$p = 16$ years old

3. When Sean stands on a box, he is 10 feet tall. If the box is 4 feet tall, write and solve an addition equation to find Sean's height. (Lesson 2)

$x + 4 = 10$
$-4 \quad -4$
$x = 6$ feet tall

4. CCSS **Use Math Tools** The amount of money Felise has in her account is shown. She has \$8 less than her brother. Write and solve a subtraction equation to find how much money her brother has. (Lesson 3)

$b - 8 = 39$
$+8 \quad +8$
$b = \$47$

BANK STATEMENT	
Felise Smith 1234 Street Town, US 00200	
CHECKING ACCOUNT	
Previous Balance:	\$0.00
Checks:	\$0.00
Withdrawals:	\$0.00
Deposits:	\$39.00
Current Balance:	\$39.00

5. A store is selling blank CDs in packages of 25 for \$5. Write and solve a multiplication equation to find the cost of one blank CD. (Lesson 4)

$25 \cdot x = 5$
$\div 25 \quad \div 25$
$x = \$0.20$

6. The speed limit in front of Meadowbrook Middle School is shown. It is one third the speed limit of a major street two blocks away. Write and solve a division equation to find the speed limit of the major street. (Lesson 5)

$\frac{s}{3} = 15 \cdot 3$
$s = 45$ mph

7. Milo is baking chicken and the preparation time is 10 minutes, which is one fourth of the baking time. Write and solve a division equation to find the baking time. (Lesson 5)

$\frac{x}{4} = 10 \cdot 4$
$x = 40$ minutes