10.8 Write and Solve Problems

? Essential Question

How can a number sentence show a real-life problem?

Explore Real World

Write a number sentence for the story problem.
Use a ▨ for the missing number. Then solve.

_____

_____ stickers

_____

_____ red blocks

Math Talk
Mathematical Processes

Describe how you decided what operation to use in the second problem.

FOR THE TEACHER • Read the following problem to children. Have them write a number sentence for it, then solve the problem. Allison has 25 cat stickers and 39 dog stickers. How many stickers does she have in all? Repeat for the following problem. Hiro has 72 blocks. 42 of the blocks are blue and the rest are red. How many blocks are red?

Model and Draw

Write a story problem that this number
sentence could be used to solve.

$$251 + \blacksquare = 456$$

addend   unknown   total
addend

Anna has _____ coins. Her sister gives her some more coins.

Now she has _____ coins. How many coins
did her sister give her?

Subtract to solve the problem.

$$456$$
$$- 251$$

_____ coins

Share and Show

MATH BOARD

Write a story problem that this number sentence
could be used to solve. Then solve.

1. $965 - 436 = \blacksquare$

Jake has 965 blocks. _____

_____

_____

2. $523 + 417 = \blacksquare$

Drew has some straws. _____

_____

_____

Problem Solving

Write a word problem that this number sentence could be used to solve. Then solve.

3. ▢ $+ 345 = 752$

Lots of deer live in the state park. _____

_____

_____

4. $384 - 133 =$ ▢

_____

_____

_____

Solve. Write or draw to explain.

5. **H.O.T.** **Multi-Step** Use the number sentences to complete the story problem.

There are _____ birds at the lake.

_____ birds fly away. Then _____ more birds fly to the lake. How many birds are at the lake now?

$340 - 214 =$ ▢

▢ $+ 245 =$ ▲

_____ birds

Choose the correct answer.

6. **Use Symbols** Russell found 101 stones. Becky found 224 stones. Which number sentence can be used to find the total number of stones that they found?

- ○ $224 + 199 =$ ▢
- ○ $224 - 101 =$ ▢
- ○ $224 + 101 =$ ▢

7. Write a story problem that could be shown with the number sentence. Then solve.

$145 + 253 =$ ▢

_____

_____

_____

_____

8. ⭐ **TEXAS Test Prep** There are 381 ducks at a lake. 219 more ducks come to the lake.

Which number sentence can be used to find how many ducks are at the lake now?

- ○ $381 -$ ▢ $= 219$
- ○ $381 - 219 =$ ▢
- ○ $381 + 219 =$ ▢

TAKE HOME ACTIVITY • Ask your child to explain how he or she solved an exercise in this lesson.

10.8 Write and Solve Problems

Write a story problem that this number sentence could be used to solve. Then solve.

1. $351 + \blacksquare = 465$

Ben has 351 coins. _____

_____

_____

Use the number sentences to complete the story problem.

2. There are _____ pictures to color in Erica's coloring book.

She has _____ pictures left to color. How many pictures has Erica finished?

$325 - \blacksquare = 107$

_____ pictures

3. **Multi-Step** There are _____ chickens in a pen.

_____ chickens leave the pen.

Then _____ chickens go back into the pen. How many chickens are in the pen now?

$100 - 21 = \blacksquare$

$\blacksquare + 15 = \blacktriangle$

_____ chickens

Choose the correct answer.

4. There are 183 people at a play. Then 128 more people come to the play. Which number sentence can be used to find how many people are at the play now?

○ $183 - \blacksquare = 128$

○ $183 + 128 = \blacksquare$

○ $183 - 128 = \blacksquare$

5. On Monday, 346 people went to the movies. On Tuesday, 192 people went to the movies. On Wednesday, 174 people went to the movies. Which number sentence can be used to find how many more people went to the movies on Monday than on Wednesday?

○ $192 + 174 = \blacksquare$

○ $346 + 192 = \blacksquare$

○ $346 - 174 = \blacksquare$

6. Alan and Bret collected 110 canned goods for the town pantry. Sue and Anna collected 242 canned goods for the pantry. Which number sentence can be used to find the total number of canned goods collected?

○ $242 - 110 = \blacksquare$

○ $110 + 242 = \blacksquare$

○ $242 - \blacksquare = 110$

✅ Module 10 Assessment

Concepts and Skills

Break apart the addends to find the sum. 🔹 TEKS 2.4.C

1.
$$849 \longrightarrow \underline{\hspace{1cm}} + \underline{\hspace{1cm}} + \underline{\hspace{1cm}}$$
$$+ \ 123 \longrightarrow \underline{\hspace{1cm}} + \underline{\hspace{1cm}} + \underline{\hspace{1cm}}$$

$$\underline{\hspace{1cm}} + \underline{\hspace{1cm}} + \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$$

Write the sum or difference. 🔹 TEKS 2.4.C

2.

Hundreds	Tens	Ones
□		
1	4	7
+ 1	2	5

3.

Hundreds	Tens	Ones
□	□	
1	5	6
+	4	2

4.

Hundreds	Tens	Ones
□	□	□
9	8	4
− 7	1	5

5. Write a story problem that could be shown with the number sentence. Then solve. 🔹 TEKS 2.4.D

$$276 - 133 = \blacksquare$$

_____

_____

_____

_____

Fill in the bubble for the correct answer choice.

6. There are 487 people running a race. 215 people have finished the race. How many people are still running in the race? 🔹TEKS 2.4.C

- ○ 702
- ○ 272
- ○ 382

7. There are 512 visitors at the zoo on Monday and 437 visitors on Tuesday. Which number sentence could be used to find the total number of visitors on Monday and Tuesday? 🔹TEKS 2.4.D

- ○ $512 - 437 = \blacksquare$
- ○ $437 + \blacksquare = 512$
- ○ $512 + 437 = \blacksquare$

8. 258 kites are sold on Saturday and 341 kites are sold on Sunday. How many kites are sold on Saturday and Sunday? 🔹TEKS 2.4.C

- ○ 599
- ○ 83
- ○ 609

9. A parking garage has 800 parking spots and has 2 floors. There are 347 cars parked on the first floor and 370 cars parked on the second floor. How many empty spots are in the garage? 🔹TEKS 2.4.C

- ○ 453
- ○ 83
- ○ 717

10. Jenny has 564 stickers. She gives 210 stickers to a classmate and then buys 35 more stickers. How many stickers does Jenny have now? 🔹TEKS 2.4.C

- ○ 389
- ○ 319
- ○ 739