Animals cannot speak like we do. They communicate in other ways.

Some animals that live underwater communicate using sonar.

Wow! Let's do this project and learn more.

**Find Out**  Talk to friends and relatives about how animals such as dolphins use sonar. Ask them to help you learn more about sonar in a book or on a computer.

**Journal: Make a Book**  Show what you found out. In your book, also:
- Draw a picture of one way that sonar is used.
- Make up and solve addition and subtraction problems about the animals that use sonar to communicate.
Name ________________________________

Review What You Know

**Vocabulary**

1. Circle the **addends** in the equation.
   
   \[ 4 + 5 = 9 \]

2. Circle the equation that is a **related fact** for \( 10 - 8 = 2 \).
   
   \[ 8 - 6 = 2 \]

3. Circle the number that will complete the **fact family**.
   
   \[ 3 + \square = 10 \]
   \[ \square + 3 = 10 \]
   \[ 8 + 2 = 10 \]
   \[ 10 - 3 = \square \]
   \[ 10 - \square = 3 \]

4. 8 squirrels are on the ground. 5 are eating acorns. How many squirrels are **NOT** eating acorns?

5. Brett has 5 markers. Pablo has 3 markers. How many more markers does Brett have than Pablo?

6. Write the related subtraction facts.

   \[ 9 = 4 + 5 \]
   \[ \square = \square - \square \]
   \[ \square = \square - \square \]

---

**Subtraction Stories**

Use cubes to solve. Write the subtraction equation.

4. 8 squirrels are on the ground. 5 are eating acorns. How many squirrels are **NOT** eating acorns?

5. Brett has 5 markers. Pablo has 3 markers. How many more markers does Brett have than Pablo?

---

**Related Facts**

6. Write the related subtraction facts.

   \[ 9 = 4 + 5 \]
   \[ \square = \square - \square \]
   \[ \square = \square - \square \]
What is growing on that tree?
**Project:** Make Flash Cards

Does the moon ever change?
**Project:** Write and Solve Moon Problems

Who captured more pieces?
**Project:** Play a Game of Checkers
Before watching the video, think:
What does it mean for two sides to be balanced? When it’s not balanced, how do you know which side weighs more?

I can ...
model a math problem that involves making true equations.
Find the missing number in this equation:

\[7 + \_ = 13\]

Explain how you found the missing number.
Visual Learning Bridge

Look at this problem:

\[ 12 - \_
\]

This means that 12 take away some number is the same as 3.

You can use counters to find the missing number.

\[
\begin{array}{c}
\text{\includegraphics[width=3cm]{counters}}
\end{array}
\]

\[ 12 - 9 = 3 \]

You can also use addition to find the missing number.

\[
\begin{array}{c}
3 + \_
\end{array}
\]

so \[ 12 - 9 = 3 \]

9 is the missing number. 9 makes the equation true.

Convince Me!

What is the missing number in the equation \[ \_
\] + 4 = 9? How do you know?

Guided Practice

Write the missing numbers. Then draw or cross out counters to show your work.

1. \[ 14 - \_
\] = 7

\[
\begin{array}{c}
\text{\includegraphics[width=3cm]{counters}}
\end{array}
\]

2. \[ 4 + \_
\] = 12

\[
\begin{array}{c}
\text{\includegraphics[width=3cm]{counters}}
\end{array}
\]
### Independent Practice

Write the missing numbers. Draw counters to show your work.

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>3.</td>
<td>9 = 8</td>
<td>4.</td>
</tr>
<tr>
<td>6.</td>
<td>8 + ____ = 15</td>
<td>7.</td>
</tr>
</tbody>
</table>

### Number Sense

Write the missing number to make each equation true.

9 + ____ = 19
20 = ____ + 10
− 10 = 9
− 10 = 10

---

**Topic 5 | Lesson 1**

two hundred fifteen 215
10. **Reasoning**  Adam wants to visit 13 states on a road trip. He has visited 7 states so far. How many states does Adam have left to visit?  

13  \( \bigcirc \____ = ____ \)  

\( ____ \) states

11. Chelsea needs to make 11 costumes in all for her dance class. She has 4 costumes left to make. How many costumes did Chelsea already make?  

11  \( = \bigcirc \bigcirc ____ \)  

\( ____ \) costumes

12. **Higher Order Thinking**  Find the missing number in the equation 5 + ____ = 14. Then write a story that matches the problem.

13. **Assessment Practice**  Match each equation with the correct missing number.

\[ 17 - ____ = 7 \]
\[ ____ + 6 = 12 \]
\[ 4 + ____ = 13 \]
\[ ____ - 1 = 2 \]

6  3  10  9