

Learning Target: Estimate
sums and differences.**Explore and Grow**

Change the numbers to make it easier to add or subtract.
Then add or subtract to find an estimate.

<u>Actual</u>		<u>Estimate</u>
64	→	<input type="text"/>
+ 17	→	+ <input type="text"/>
<hr/>		<hr/>
<input type="text"/>		<input type="text"/>

<u>Actual</u>		<u>Estimate</u>
51	→	<input type="text"/>
- 26	→	- <input type="text"/>
<hr/>		<hr/>
<input type="text"/>		<input type="text"/>

How do your estimates compare to the actual sum and difference? Explain.



Think and Grow

An **estimate** is a number that is close to an exact number. You can estimate sums and differences by using numbers close to the actual numbers that are easier to add and subtract.

Estimate $19 + 52$.

Use numbers that are easier to add. Then find the sum.

$$\begin{array}{r} 19 \longrightarrow \boxed{20} \\ + 52 \longrightarrow + \boxed{50} \\ \hline \boxed{70} \end{array}$$

So, $19 + 52$ is about 70.

Estimate $68 - 37$.

Use numbers that are easier to subtract. Then find the difference.

$$\begin{array}{r} 68 \longrightarrow \boxed{70} \\ - 37 \longrightarrow - \boxed{40} \\ \hline \boxed{30} \end{array}$$

So, $68 - 37$ is about 30.

Show and Grow

Estimate the sum or difference.

1.

$$\begin{array}{r} 21 \longrightarrow \boxed{} \\ + 43 \longrightarrow + \boxed{} \\ \hline \boxed{} \end{array}$$

2.

$$\begin{array}{r} 54 \longrightarrow \boxed{} \\ - 38 \longrightarrow - \boxed{} \\ \hline \boxed{} \end{array}$$



Apply and Grow: Practice

Estimate.

3.
$$\begin{array}{r} 41 \longrightarrow \boxed{} \\ + 15 \longrightarrow + \boxed{} \\ \hline \end{array}$$

4.
$$\begin{array}{r} 54 \longrightarrow \boxed{} \\ + 23 \longrightarrow + \boxed{} \\ \hline \end{array}$$

5.
$$\begin{array}{r} 48 \longrightarrow \boxed{} \\ - 36 \longrightarrow - \boxed{} \\ \hline \end{array}$$

6.
$$\begin{array}{r} 99 \longrightarrow \boxed{} \\ - 62 \longrightarrow - \boxed{} \\ \hline \end{array}$$

7.
$$\begin{array}{r} 28 \longrightarrow \boxed{} \\ + 39 \longrightarrow + \boxed{} \\ \hline \end{array}$$

8.
$$\begin{array}{r} 94 \longrightarrow \boxed{} \\ - 5 \longrightarrow - \boxed{} \\ \hline \end{array}$$

9. $87 - 56$

_____ - _____ = _____

10. $41 + 29$

_____ + _____ = _____

11. **MP Number Sense** Match the numbers that have a difference of about 20.

81

27

64

68

9

91

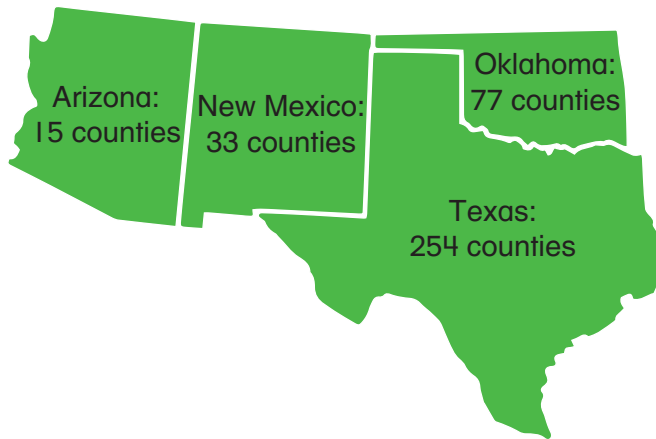
99

43



Think and Grow: Modeling Real Life

About how many more counties are in Oklahoma than in New Mexico?



Subtraction equation:

Estimate:

There are about _____ more counties in Oklahoma than in New Mexico.

Show and Grow

12. Use the map above. About how many more counties are there in New Mexico than in Arizona?

-
13. A human has 10 leg bones, 14 ankle bones, and 38 foot bones. About how many leg, ankle, and foot bones does a human have? Explain.

Learning Target: Estimate sums and differences.Estimate $18 + 44$.

Use numbers that are easier to add. Then find the sum.

$$\begin{array}{r}
 18 \longrightarrow \boxed{20} \\
 + 44 \longrightarrow + \boxed{40} \\
 \hline
 \boxed{60}
 \end{array}$$

So, $18 + 44$ is about 60.Estimate $82 - 57$.

Use numbers that are easier to subtract. Then find the difference.

$$\begin{array}{r}
 82 \longrightarrow \boxed{80} \\
 - 57 \longrightarrow - \boxed{60} \\
 \hline
 \boxed{20}
 \end{array}$$

So, $82 - 57$ is about 20.

Estimate.

1.

$$\begin{array}{r}
 61 \longrightarrow \boxed{} \\
 + 33 \longrightarrow + \boxed{} \\
 \hline
 \boxed{}
 \end{array}$$

2.

$$\begin{array}{r}
 34 \longrightarrow \boxed{} \\
 + 22 \longrightarrow + \boxed{} \\
 \hline
 \boxed{}
 \end{array}$$

3.

$$\begin{array}{r}
 44 \longrightarrow \boxed{} \\
 - 12 \longrightarrow - \boxed{} \\
 \hline
 \boxed{}
 \end{array}$$

4.

$$\begin{array}{r}
 89 \longrightarrow \boxed{} \\
 - 51 \longrightarrow - \boxed{} \\
 \hline
 \boxed{}
 \end{array}$$

5. $67 - 13$

$$\underline{} - \underline{} = \underline{}$$

Estimate Sums and Differences

6. $16 + 55$

$$\underline{} + \underline{} = \underline{}$$

forty-three

Estimate.

7. $48 + 32$

_____ + _____ = _____

8. $15 + 29$

_____ + _____ = _____

9. **DIG DEEPER!** Newton estimates $54 + 11$. Is the estimated sum greater than or less than the actual sum? Explain.



54	+	11	=	50
				10

10. **Modeling Real Life** About how many more Native American tribes are there in Oklahoma than in Michigan?

State	Number of Native American Tribes
Oklahoma	38
Washington	29
New Mexico	23
Michigan	12

11. **DIG DEEPER!** About how many total Native American tribes are there in Oklahoma, Washington, New Mexico, and Michigan?

Review & Refresh

Compare.

12. $100 \bigcirc 10$

13. $25 \bigcirc 52$

14. $12 \bigcirc 11$