Chapter 3 Integers

3 Subtract –4 – 8.

$-4 - 8 = -4 + (-8)$ To subtract 8, add –8.

$\quad = -12$ Simplify.

13 **Use Math Tools** Use the information below.

State	Alabama	California	Florida	Louisiana	New Mexico
Lowest Elevation (ft)	0	−282	0	−8	2,842
Highest Elevation (ft)	2,407	14,494	345	535	13,161

a. **What is the difference between the highest elevation in Alabama and the lowest elevation in Louisiana?**
Subtract the lowest elevation in Louisiana from the highest elevation in Alabama.
$2,407 - (-8) = 2,407 + 8$
$\qquad\qquad = 2,415$
So, the difference is 2,415 feet.

b. **Find the difference between the lowest elevation in New Mexico and the lowest elevation in California.**
Subtract the lowest elevation in California from the lowest elevation in New Mexico.

$2,842 - (-282) = 2,842 + 282$
$\qquad\qquad\quad = 3,124$
So, the difference is 3,124 feet.

c. **Find the difference between the highest elevation in Florida and the lowest elevation in California.**
Subtract the lowest elevation in California from the highest elevation in Florida.
$345 - (-282) = 345 + 282$
$\qquad\qquad\quad = 627$
So, the difference is 627 feet.

d. **What is the difference between the lowest elevation in Alabama and the lowest elevation in Lousiana?**
Subtract the lowest elevation in Louisiana from the lowest elevation in Alabama.
$0 - (-8) = 0 + 8$
$\qquad\quad = 8$
So, the difference is 8 feet.

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