A scuba diver uses negative numbers to represent her depth below sea level. She started at a depth of -1.5 meters. Then she dove down to a depth of -4.2 meters. What is the difference between those depths?

Write an expression to represent the problem. .

$$-1.5$$
  $(-4.2)$ 

To subtract means to add its opposite.

$$-1.5$$
  $-1.5$   $+$   $(4.2)$ 

Use a vertical number line to <u>add</u>

Locate 1.5 on the number line.

From  $\frac{-1.5}{-1.5}$ , move  $\frac{4.2}{-1.5}$  units  $\frac{\sqrt{9}}{-1.5}$ 

The difference is <u>2.7</u> meters. This is the total distance the diver dove to reach her new depth.

