

# Activity 8 Assessment

## Solving Problems Involving Integers

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Uses integers to represent real-life situations

A beluga whale was swimming at a depth of 15 m. It dove down another 180 m to feed. At what depth was the whale feeding?

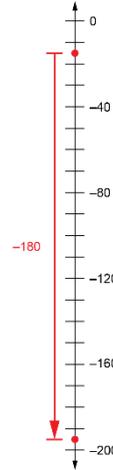
“The two depths are below the surface. If the surface of the ocean is 0 m, the depths are  $-15$  m and  $-180$  m.”

Writes expressions to represent problem situations involving integers

$$-15 + (-180)$$

“I need to find the whale’s feeding depth. The whale starts at  $-15$  m and dives down  $-180$  m farther, so I need to add.”

Selects effective problem-solving strategies (including models)



$$-15 + (-180) = -195$$

“180 is a lot of counters to count. I’ll use a number line.”

Solves problems involving integers in more than one way

“I can also just add 15 m and 180 m to determine the feeding depth.”

### Observations/Documentation