

Example 2) The temperature was 2° below zero. The temperature then drops by 5° . What is the temperature now?

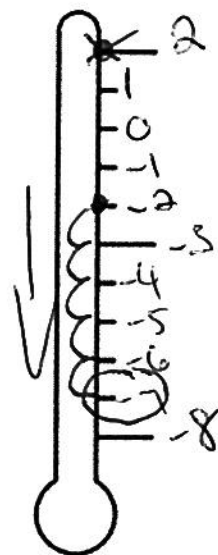
a) What is the original temperature written as an integer? -2°

b) Mark the temperature on the number line

c) A drop in temperature of 5° is like adding -5° to the temperature.

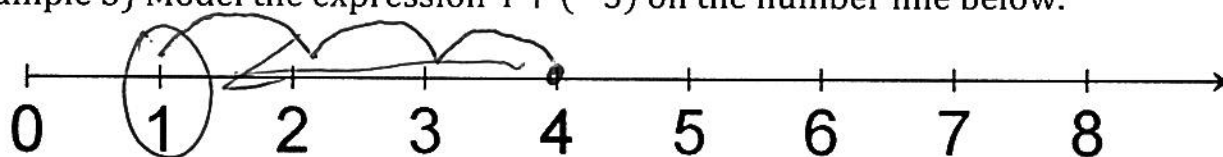
Count the number line to find the final temperature.

d) What is the temperature written as an integer? -7

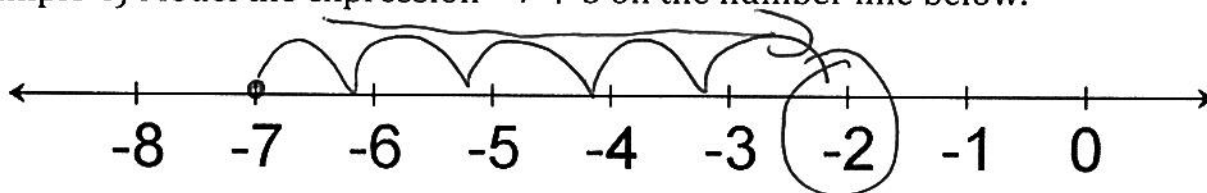


The temperature is now 7 degrees **above** below zero.

Example 3) Model the expression $4 + (-3)$ on the number line below.

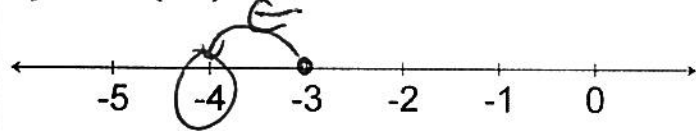


Example 4) Model the expression $-7 + 5$ on the number line below.

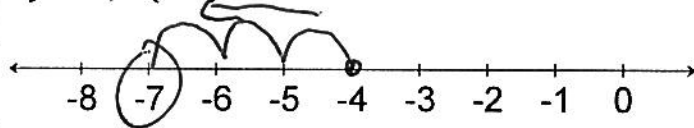


Now, You Try! Model each sum below on the number line.

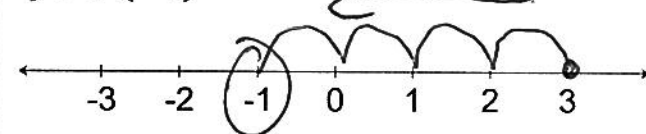
5) $-3 + (-1)$



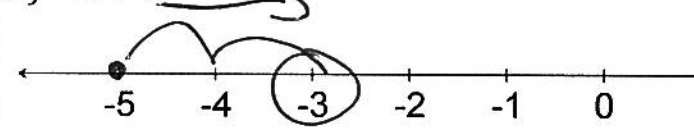
6) $-4 + (-3)$



7) $3 + (-4)$



8) $-5 + 2$

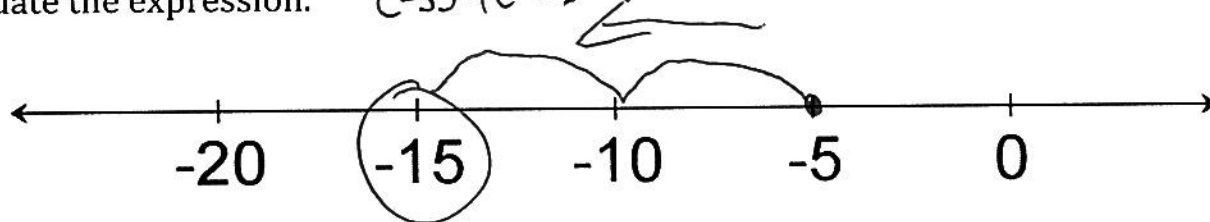


-5

-10

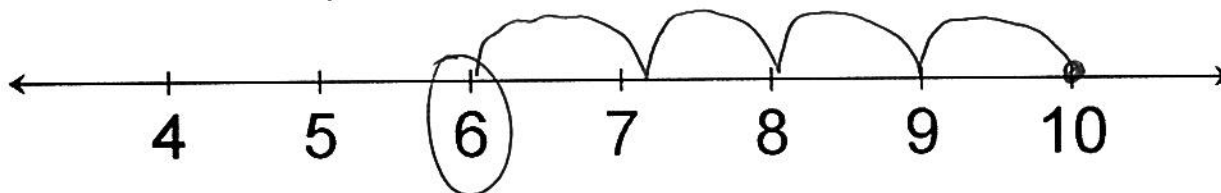
9) A football team receives a 5 yard penalty on one play and a 10 yard penalty on the next. Write a sum of **negative integers** to represent this situation. Then use the number line to evaluate the expression.

$(-5) + (-10)$



10) Suppose you received \$10 dollars from your grandmother for your birthday. You spent \$4 on snacks. Using addition, how would you write a mathematical expression to express this situation. Then use the number line to evaluate the expression.

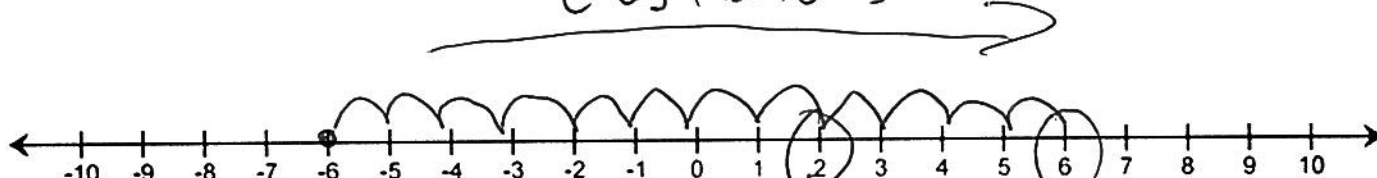
$10 + (-4)$



Challenge:

David and Victoria were playing a card game. David drew three cards, -6, 12, and -4. What is the sum of his cards? Model your answer on the number line below.

$(-6) + 12 + (-4)$



Sum is 2

