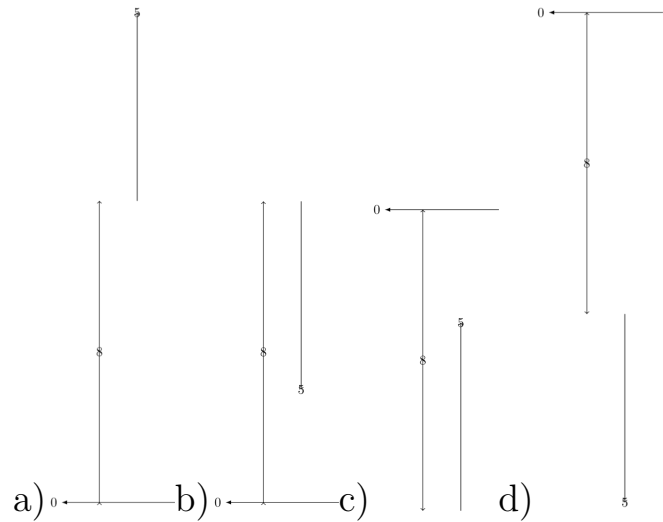


# 1 Integer Equations Quiz

Answer the questions in the spaces provided on the question sheets. Then enter your answer into the Integer Equations Quiz on Schoology. If you run out of room for an answer, raise your hand to ask for an extra piece of paper.

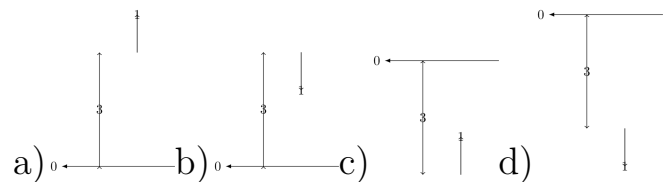
Name and period: \_\_\_\_\_

- 1) Which direction do you move along the vertical number line when subtracting a negative?



- 2) Which direction do you move along the vertical number line when subtracting a positive?

- 4) Draw an arrow diagram to represent the sum  $3 - (-1)$ .



- 5) Evaluate the sum  $-8 - 5$ .

- 3) Draw an arrow diagram to represent the sum  $-8 - 5$ .

6) Evaluate the sum  $3 - (-1)$ .

10) Which algebraic property is demonstrated below?

7) Evaluate the sum  $-34 + 93$ .

$$\begin{aligned}\frac{1}{2}x &= 12 \\ \Rightarrow 2 \cdot \frac{1}{2}x &= 2 \cdot 12\end{aligned}$$

8) Evaluate the sum  $-27 - (-157)$ .

11) Find the value of the variable that makes the equation true.

$$x + 15 = 83$$

9) Which algebraic property is demonstrated below?

$$\begin{aligned}x + (-5) &= -10 \\ \Rightarrow x + (-5) + 5 &= -10 + 5\end{aligned}$$

12) Find the value of the variable that makes the equation true.

$$x + 301 = -405 + 301$$

- 13) Find the value of the variable that makes the equation true.

$$x + (-136) = -158$$

- 15) Find the value of the variable that makes the equation true.

- 14) Find the value of the variable that makes the equation true.

$$x + 93 = -211$$

$$\frac{1}{5}x = -25$$