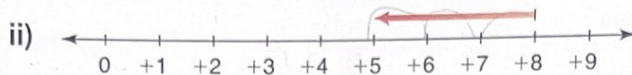
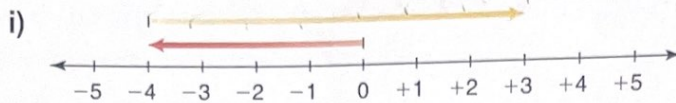


8. a) Write the addition equation modelled by each number line.  
 b) Describe a situation that each number line could represent.



9. **Assessment Focus** Is each statement always true, sometimes true, or never true?

Use a number line to support your answers.

- The sum of two opposite integers is 0.
- The sum of two positive integers is negative.
- The sum of two negative integers is negative.
- The sum of a negative integer and a positive integer is negative.

10. **Take It Further** Add.

- |                         |                         |
|-------------------------|-------------------------|
| a) $(+4) + (+3) + (-6)$ | b) $(-2) + (-4) + (+1)$ |
| c) $(-5) + (+3) + (-4)$ | d) $(+6) + (-8) + (+2)$ |

11. **Take It Further** The temperature in Calgary, Alberta, was  $-2^{\circ}\text{C}$ . A Chinook came through and the temperature rose  $15^{\circ}\text{C}$ . At nightfall, it fell  $7^{\circ}\text{C}$ . What was the final temperature? Support your answer with a drawing.



### Reflect

Compare adding on a number line to adding with coloured tiles. Which method do you prefer? When might you need to use a different method?

**4.** Use coloured tiles to add.

Draw pictures of the tiles you used.

a)  $(+4) + (-1)$       b)  $(-3) + (-2)$

c)  $(-5) + (+1)$       d)  $(+6) + (+3)$

e)  $(-4) + (-8)$       f)  $(+4) + (+8)$

**3** **5.** Use a number line to add.

Write the addition equations.

a)  $(+3) + (+2)$       b)  $(-5) + (-1)$

c)  $(-10) + (+8)$       d)  $(+6) + (-5)$

e)  $(-8) + (+8)$       f)  $(-5) + (+12)$