

What Should I Be Able to Do?

LESSON

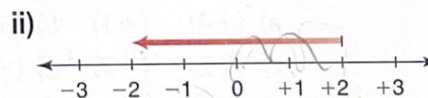
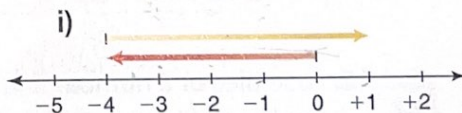
- 2.1** 1. Suppose you have 17 red tiles. How many yellow tiles would you need to model:
- a) -12 ? b) 0 ?
 c) $+20$? d) -17 ?
- How do you know?
2. Write the integer suggested by each of the following situations. Draw yellow or red tiles to model each integer. Explain your choice.
- a) The temperature rises 8°C .
 b) The price of 1 L of gas falls 5c .
 c) You deposit $\$12$ in your bank account.
 d) You take 7 steps backward.
 e) The time is 9 s before take-off.
- 2.2** 3. What sum does each set of tiles model?
- a) 5 red tiles and 2 yellow tiles
 b) 6 yellow tiles and 5 red tiles
 c) 6 yellow tiles and 7 red tiles
 d) 8 yellow tiles and 8 red tiles
4. Represent each sentence with integers, then find each sum.
- a) The temperature was -6°C , then rose 4°C .
 b) Surinder withdrew $\$25$, then deposited $\$13$.
 c) A stock gained $\$15$, then lost $\$23$.
 d) A submarine was 250 m below sea level, then ascended 80 m.

5. a) Find 4 pairs of integers that have the sum -5 .
 b) Find 4 pairs of integers that have the sum $+4$.

- 2.3** 6. The temperature at 6 a.m. is -10°C . During the day, the temperature rises 17°C . What is the new temperature? Write an addition equation to represent this situation. Use a vertical number line to support your answer.



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



- 2.2** 8. Use tiles to add or subtract.
2.4
- a) $(-1) + (+3)$
 b) $(+3) + (-4)$
 c) $(-2) - (+3)$
 d) $(-1) - (-3)$