

Extra Practice 1

Lesson 2.1: Using Models to Multiply Integers

1. a) Evaluate.

$$(-3) + (-3) + (-3) + (-3)$$

- b) Explain why $(+4) \times (-3)$ has the same value as the expression in part a.

2. Use coloured tiles to find each product.

a) $(+4) \times (+3)$

b) $(+6) \times (-7)$

c) $(-5) \times (+3)$

d) $(-8) \times (-3)$

3. Use a number line to find each product.

a) $(+8) \times (+2)$

b) $(+3) \times (-4)$

c) $(-6) \times (+6)$

d) $(-9) \times (-2)$

4. The ice on Mattias's skating pond melted 2 cm every day for 5 days. Use integers to find the change in the depth of the ice after 5 days.

5. Aliya climbs down a ladder. The rungs on the ladder are 30 cm apart.

- a) Aliya climbs down 2 rungs. Use integers to find her total change in elevation.

- b) How much higher was Aliya before she climbed down 3 rungs?

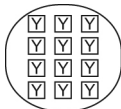
Extra Practice Sample Answers

Extra Practice 1 – Master 2.18

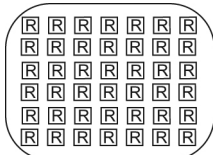
Lesson 2.1

1. a) -12
 b) Adding a number 4 times is the same as 4 times the number.

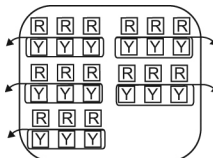
2. a) $+12$



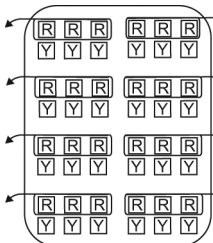
- b) -42



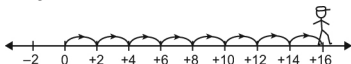
- c) -15



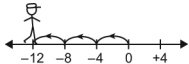
- d) $+24$



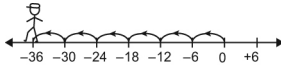
3. a) $+16$



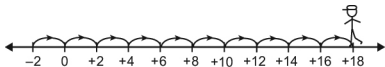
- b) -12



- c) -36



- d) $+18$



4. $(+5) \times (-2) = -10$; the ice melted 10 cm after 5 days.
 5. a) $(+2) \times (-30) = -60$; Aliya is 60 cm below her previous elevation.
 b) $(-3) \times (-30) = 90$; Aliya was 90 cm above her current elevation.