

 chapter 2 review

1. (a) Which of the following temperatures are colder?

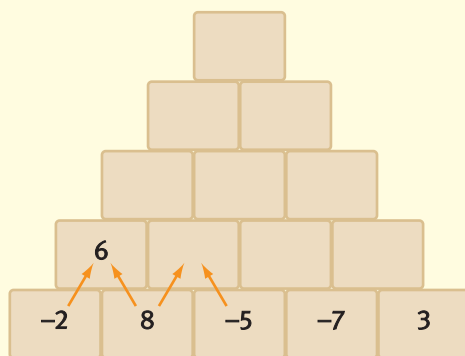
- (i) -7°C or -9°C
 (ii) 0°C or -4°C
 (iii) -4°C or -2°C

(b) ✎ Simplify each of the following:

- (i) $(-1) \times 3 \times (-2)$ (ii) $-2 \times 4 \times (-2)$
 (iii) $(-4) \times (-2) \times (-1)$ (iv) $-3 \times (-2) \times (-5) \times (-2)$

(c) ✎ A diver is 15 metres below the surface of the water and a bird is 12 metres above the surface. How many metres is the bird above the diver?

2. (a) ✎ Copy and complete the following addition wall:



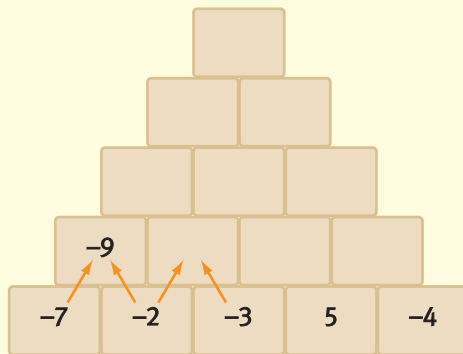
(b) ✎ Multiply each of the following:

- (i) $7 \times (-3)$ (ii) $-8 \times (-1)$ (iii) $3 \times (-4)$
 (iv) $-4 \times (-2)$ (v) $-9 \times (-4)$ (vi) $5 \times (-3)$
 (vii) $(-2) \times (-3)$ (viii) $5 \times (-5)$ (ix) $-5 \times (-2)$
 (x) $-6 \times (-3)$ (xi) $5 \times (-8)$ (xii) $-5 \times (-6)$

(c) ✎ Write each of the following in its simplest form:

- (i) $\frac{9}{3}$ (ii) $\frac{-12}{4}$ (iii) $\frac{-8}{2}$ (vi) $\frac{-12}{-3}$
 (v) $\frac{3}{-3}$ (vii) $\frac{-18}{-6}$ (viii) $-\left(\frac{24}{6}\right)$

3. (a) ✎ Copy and complete the following addition wall:



- (b) ✎ Work out each of the following:

(i) $4 + (-1)$	(ii) $-4 + (-6)$	(iii) $-2 + (-2)$
(iv) $-4 + 6$	(v) $-4 + (-3)$	(vi) $-5 + (-1)$
(vii) $6 + (-11)$	(viii) $-14 + 6$	(ix) $4 + (-4)$
(x) $-40 + 60$	(xi) $-45 + (-3)$	(xii) $-50 + (-10)$

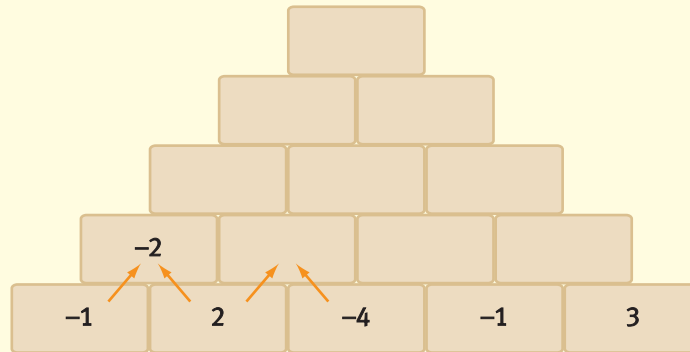
- (c) ✎ On a winter's day, the temperature of the sea is 5°C and the temperature of the air is -2°C . If normal body temperature is 37°C :

- How many degrees warmer is body temperature than the temperature of the sea?
- How many degrees colder is the temperature of the air than the sea?
- How many degrees colder is air temperature than body temperature?

4. (a) ✎ Work out each of the following.

(i) $-7 + (-3) + 6$	(ii) $-4 + 7 + (-4)$
(iii) $2 + (-4) + (-6)$	(iv) $-2 + (-3) + (-1)$
(v) $7 - (-2) + 5$	(vi) $10 + (-4) + 8$
(vii) $-4 + (-7) + 4$	(viii) $12 + (-14) + (-5)$
(ix) $-22 + (-11) + (-11)$	(x) $50 - (-20) + 15$

- (b) ✎ Copy and complete the following multiplication wall:



- (c) ✎ Simplify each of the following.
(Remember to get rid of the brackets first.)

(i) $5 + 3(-1 + 3) - (5 - 4)$

(ii) $-6 - 1(-2 + 3) - 4(-1 - 2)$

(iii) $7 - 4(-2) - (3 - 1)$

(iv) $-3 + 2(4 - 4) - (-5 + 5) + 3$

5. (a) ✎ Simplify each of the following.

(Remember to get rid of the brackets first.)

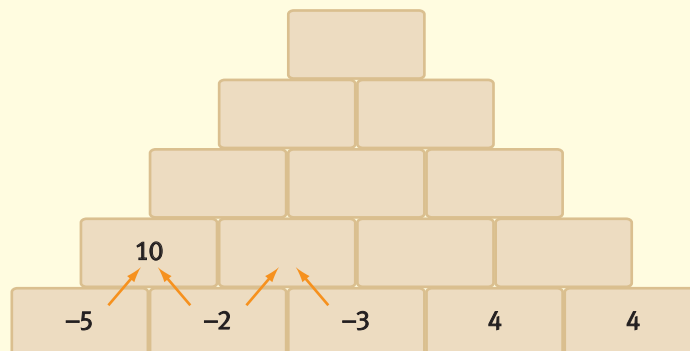
(i) $3 - (-7) + 3 - (-5)$

(ii) $-4 - 2(-5) - 4(-2)$

(iii) $-3 - 4(-4) - (-1)$

(iv) $-5 + 2(-2) - (-5) + 2$

- (b) ✎ Copy and complete the following multiplication wall:



- (c) ✎ Work out each of the following:

(i) $\frac{-9 \times 3}{3}$

(ii) $\frac{-12 \times (-4)}{6 - 2(4)}$

(iii) $\frac{-4 \times (-2) \times (3)}{(-3) \times (-4)}$

6. (a) ✎ Simplify each of the following.

(Remember to get rid of the brackets first.)

(i) $5 - (-1) + 5 - (-6)$

(ii) $-7 - 2(-3) - 3(-2)$

(iii) $8 - 3(-1) - 3(-2)$

(iv) $-5 + 2(-7) - (-5) + 1$

(b) ✎ Simplify each of the following.

(Remember to get rid of the brackets first.)

(i) $5 \times (-1) \times (-3) \times 2$

(ii) $-3 \times (-1) \times 4 \times (-2)$

(iii) $3 \times (-4) \times (-4) \times (-1)$

(iv) $-3 \times (-1) \times (-5) \times (-3)$

(c) ✎ Work out each of the following.

(Remember to get rid of the brackets first.)

(i) $\frac{-8 \times 3 \times 2 \times (-1)}{6 \times (-1) \times (-4)}$

(ii) $\frac{2(-1) \times 2(-5) - 6}{-2 \times (5) - 4}$