

Exercise 1.6

answers on p. 418

1. Find the LCM of each of the following pairs of numbers.

(a) 2, 17	(b) 3, 5	(c) 4, 9
(d) 5, 12	(e) 6, 9	(f) 6, 12
(g) 6, 15	(h) 12, 8	(i) 12, 9
(j) 12, 20	(k) 14, 6	(l) 15, 9
(m) 15, 20	(n) 16, 10	(o) 16, 36
(p) 18, 9	(q) 18, 24	(r) 20, 25
(s) 78, 56	(t) 81, 225	(u) 108, 132
(v) 110, 231	(w) 126, 195	(x) 135, 120
(y) 168, 248	(z) 700, 82	

2. Find the LCM of each of the following sets of numbers.

(a) 8, 12, 18	(b) 20, 32, 18	(c) 24, 18, 36
(d) 4, 8, 16, 20	(e) 5, 12, 18, 20	(f) 6, 12, 8, 18
(g) 135, 175, 65	(h) 140, 385, 220	(i) 225, 105, 252

3. Find the (i) HCF, (ii) LCM and (iii) product of the HCF and the LCM for each of the following pairs of numbers.

(a) 7, 28	(b) 12, 18
(c) 12, 35	(d) 96, 120

Find also the product of each of these pairs of numbers and compare the result with that in (iii). What do you notice?

- *4. The LCM of 6 and a certain number is 24. Find the number. (If there is more than one answer, give the smallest number.)

- *5. The HCF of two numbers is 1 and the LCM of these numbers is 91. What are the numbers?

Exercise 1.6 (p. 17)

1. (a) 34 (b) 15 (c) 36
(d) 60 (e) 18 (f) 12
(g) 30 (h) 24 (i) 36
(j) 60 (k) 42 (l) 45
(m) 60 (n) 80 (o) 144
(p) 18 (q) 72 (r) 100
(s) 2 184 (t) 2 025 (u) 1 188
(v) 2 310 (w) 8 190 (x) 1 080
(y) 5 208 (z) 28 700

2. (a) 72 (b) 1 440 (c) 72
(d) 80 (e) 180 (f) 72
(g) 61 425 (h) 1 540 (i) 6 300

3. (a) (i) 7 (ii) 28 (iii) 196
(b) (i) 6 (ii) 36 (iii) 216
(c) (i) 1 (ii) 420 (iii) 420

(d) (i) 24 (ii) 480 (iii) 11 520
The product of the HCF and LCM of each pair of numbers is equal to the product of the respective pair of numbers.

4. 8

5. 7, 13 or 1, 91