

Exercise 1.5*answers on p. 418*

No calculators may be used.

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

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| (a) 8, 9 | (b) 11, 13 | (c) 12, 42 |
| (d) 15, 16 | (e) 15, 27 | (f) 15, 42 |
| (g) 15, 60 | (h) 15, 63 | (i) 16, 56 |
| (j) 18, 45 | (k) 20, 21 | (l) 24, 19 |
| (m) 24, 48 | (n) 24, 108 | (o) 28, 54 |
| (p) 36, 162 | (q) 36, 243 | (r) 42, 36 |
| (s) 42, 63 | (t) 45, 42 | (u) 60, 84 |
| (v) 96, 36 | (w) 108, 48 | (x) 165, 99 |
| (y) 425, 200 | (z) 546, 1 521 | |

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

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| (a) 4, 5, 9 | (b) 12, 42, 72 | (c) 16, 72, 104 |
| (d) 35, 420, 245 | (e) 47, 9, 25 | (f) 4, 5, 7, 9 |
| (g) 24, 156, 180, 204 | (h) 30, 126, 105, 255 | (i) 96, 144, 136, 344 |

*3. The HCF of two numbers is 12. If the sum of the two numbers is 72, find the numbers.

*4. The HCF of two numbers is 8. If the sum of the two numbers is 72, find the numbers. (Give all the possible pairs of numbers.)

Exercise 1.5 (p. 15)

1. (a) 1 (b) 1 (c) 6
 (d) 1 (e) 3 (f) 3
 (g) 15 (h) 3 (i) 8
 (j) 9 (k) 1 (l) 1
 (m) 24 (n) 12 (o) 2
 (p) 18 (q) 9 (r) 6
 (s) 21 (t) 3 (u) 12
 (v) 12 (w) 12 (x) 33
 (y) 25 (z) 39
2. (a) 1 (b) 6 (c) 8
 (d) 35 (e) 1 (f) 1
 (g) 12 (h) 3 (i) 8
3. 12, 60
4. 8, 64; 16, 56; 32, 40