

## Answers

### Testing Time 6.1

- (a) 6, 12, 18, 24 (b) 19, 38, 57, 76 (c) 24, 48, 72, 96 (d) 32, 64, 96, 128 (e) 41, 82, 123, 164
- (a) 1, 2, 3, 4, 6, 8, 12, 24, 48 (b) 1, 2, 4, 13, 26, 52, 104 (c) 1, 2, 4, 5, 8, 10, 16, 20, 40, 80, 160  
(d) 1, 2, 3, 4, 6, 9, 12, 18, 27, 36, 54, 108, 216 (e) 1, 5, 7, 11, 35, 55, 77, 385
- 353, 355, 357, 359, 361, 363, 365, 367
- 216, 218, 220, 222, 224, 226, 228, 230
- (a)  $2 \times 3 \times 7$  (b)  $2 \times 3 \times 3 \times 3$  (c)  $2 \times 2 \times 2 \times 2 \times 2 \times 3$  (d)  $2 \times 3 \times 43$  (e)  $3 \times 3 \times 7 \times 11$
- (a) 8 is a factor of 256 (b) 13 is not a factor of 826  
(c) 15 is a factor of 690 (d) 21 is not a factor of 468
- 101 8. (a) Co-prime (b) twin-prime (c) Co-prime (d) Co-prime (e) twin-prime

### Testing Time 6.2

- (a) 3 (b) 12 (c) 5 (d) 24 (e) 2 (f) 2 (g) 4 (h) 16 (i) 20
- (a) 4 (b) 1 (c) 2 (d) 10 (e) 1 (f) 2 (g) 5 (h) 18 (i) 13  
(j) 4 (k) 19

### Testing Time 6.3

- (a) 42 (b) 96 (c) 420 (d) 1798 (e) 224 (f) 935 (g) 180 (h) 11700 (i) 10032
- (a) 336 (b) 144 (c) 1028 (d) 600 (e) 7056 (f) 169300 (g) 25110 (h) 59136 (i) 6500

### Testing Time 6.4

- 63 3. 17 4. 16 5. 15 6. 2 7. ₹14 8. 120 9. 1260 10. 10 a.m.

