Exercises

A

3. List the first 6 multiples of each number.

a) 6 b) 13 c) 22
d) 31 e) 45 f) 27

4. List the prime factors of each number.

a) 40 b) 75 c) 81
d) 120 e) 140 f) 192

5. Write each number as a product of its prime factors.

a) 45 b) 80 c) 96
d) 122 e) 160 f) 195

B

6. Use powers to write each number as a product of its prime factors.

a) 600 b) 1150
c) 1022 d) 2250
e) 4500 f) 6125

7. Explain why the numbers 0 and 1 have no prime factors.

8. Determine the greatest common factor of each pair of numbers.

a) 46, 84 b) 64, 120
c) 81, 216 d) 180, 224
e) 160, 672 f) 220, 860

9. Determine the greatest common factor of each set of numbers

a) 150, 275, 420 b) 120, 960, 1400
c) 126, 210, 546, 714 d) 220, 308, 484, 988

10. Determine the least common multiple of each pair of numbers.

a) 12, 14 b) 21, 45
c) 45, 60 d) 38, 42
e) 32, 45 f) 28, 52

11. Determine the least common multiple of each set of numbers.

a) 20, 36, 38 b) 15, 32, 44
c) 12, 18, 25, 30 d) 15, 20, 24, 27

12. Explain the difference between determining the greatest common factor and the least common multiple of 12 and 14.