Solutions Programme F.1 Arithmetic

Solutions to exercises from the book Engineering Mathematics 7th edition. The book is divided into frames and the numbers of the exercises refers to these frames.

- **2.** The numbers -10, 4, 0, -13 are of a type called integers.
- 3. (a) -3 > -6
 - **(b)** 2 > -4
 - (c) -7 < 12
- 5. (a) 8 + (-3) = 8 3 = 5
 - **(b)** 9 (-6) = 9 + 6 = 15
 - (c) (-14) (-7) = -14 + 7 = -7
- 7. (a) $(-5) \times 3 = -15$
 - **(b)** $12 \div (-6) = -2$
 - (c) $(-2) \times (-8) = 16$
 - (d) $(-14) \div (-7) = 2$
- **9.** $34 + 10 \div (2 3) \times 5 = 34 + 10 \div (-1) \times 5 = 34 10 \times 5 = 34 50 = -16$
- **13.** Some numbers and the rounding of these numbers to the nearest 10, 100 and 1000.
 - (a) 1846, 1850, 1800, 2000
 - **(b)** -638, -640, -600, -1000
 - (c) 445, 450, 400, 0
- **14.** (a) $18 \times 21 19 \div 11 \approx 20 \times 20 20 \div 10 = 398$
 - **(b)** $99 \div 101 49 \times 8 \approx 100 \div 100 50 \times 10 = -499$