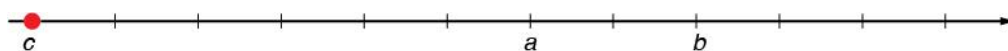


Soluções:**1.****1.1.** >**1.2.** ≠**1.3.** <**1.4.** >**1.5.** ∈**1.6.** >**1.7.** ∈**1.8.** >**2.****3.****3.1. A.** V**B.** F**C.** V**D.** F**E.** F**F.** V**G.** V**3.2.** (C)**4.****4.1.** 144,1**4.2.** $-\frac{12}{7}$ **4.3.** $-\frac{14}{9}$ **4.4.** 5**4.5.** $-\frac{1}{6}$ **4.6.** $\frac{37}{33}$ **5.** O Tiago doou 2 livros e a Maria doou 8 livros.**6.** 3^{33} **7.****7.1.** $\frac{6}{17}$ **7.2.** 1,7**7.3.** 1,7**7.4.** -2,89**8.** $V = 125 \text{ cm}^3$ **9.****9.1.** $2,525 \times 10^{36}$ **9.2.** $2,442 \times 10^{123}$

10. A área da superfície terrestre com construção humana no ano 2000 era $1,02 \times 10^{13} \text{ m}^2$.

11. (B)

12. III, IV, V, VII, IX

13.

13.1. 300 euros

13.2. O Miguel.

13.3. (A)

14.

14.1. $\frac{1}{2}$

14.2. (C)

14.3. (C)