

4. (a) $x - 3 = 7$

(b) $\frac{3}{x} = 7$ (to 2 sig. fig)

(c) $\frac{4x + 3}{2} = 5$ (to 3 sig. fig.)

(d) $\frac{3x + 5}{4} = \frac{x - 7}{3}$ (to 3 sig. fig.)

5. (a) Convert 3.0 milliliters (mL) to units of liters. Which numbers are exact and which are inexact (measured) values?

(b) How many minutes are in 1.00 year? Which numbers are exact and which are inexact (measured) values?

6. (a) $\log 1.5 \times 10^3 =$

(b) $\log 8.0 \times 10^{-6} =$

(c) $\log x = 4.00$

(d) $-\log x = 6.75$