Constant of Proportionality: Tables and Graphs Worksheet Plan

Worked example / complete source key

A table shows x = 2, y = 7; x = 4, y = 14; x = 6, y = 21. Find k and write a unit-rate statement if x is hours and y is pages.

Answer: k = 3.5 pages per hour. For each 1 hour, 3.5 pages are produced.

Reason: 7 divided by 2 equals 3.5; 14 divided by 4 equals 3.5; 21 divided by 6 equals 3.5. The quotient is constant, so k = 3.5.

Check: Substitute (2,7) into y = 3.5x: 7 = 3.5 times 2, true. Substitute (6,21): 21 = 3.5 times 6, true.