



Math Study Strategies

Math for Computers

Print Rate

Problem:

A new laser printer can print 9 pages per minute. How many pages will it print in 5 minutes?

Solution:

First, write down the given information and what the problem is asking for.

Given: 9 pages/ minute

Looking for: Number of pages in 5 minutes.

We know that the printer will print pages at the same rate. To solve the problem, we set a proportion and solve for the unknown (x in this example).

$$\frac{9 \left(\frac{\text{page}}{\text{min}}\right)}{1 \text{ min}} = \frac{x \left(\frac{\text{page}}{\text{min}}\right)}{5 \text{ min}}$$

Cross-multiply the 5 and the 9 to solve for x.

$$9 \times 5 = 45$$

$$x = 45$$

Answer: The printer will print 45 pages in 5 minutes