Unknown Amount, Rate, Base

TRY: You can also think of the rate proportion as: $\dfrac{r}{100} = \dfrac{part}{whole}$

Unknown Amount

In order to pass an exam, a student needs to answer 80% of the exam questions correctly. If the exam contains 24 questions, how many must the student answer correctly to pass? (Since the answer needs to be "whole" questions, be sure to round the answer UP.)

Unknown Rate

A chemist prepares a 400-ml. acid-water solution. If the solution contains 30 ml of acid, what percent of the solution is acid?

Unknown Base

A college finds that 35% of its science students take biology. If there are 252 biology students, how many science students are there altogether?

Tom has 6% of his salary deducted for a retirement plan. If that deduction is $168, what is his monthly salary?

A virus-scanning program is checking every file for viruses. It has completely scanned 30% of the files in 150 seconds. How long should it take to check all the files?