

Mixed operations word problems

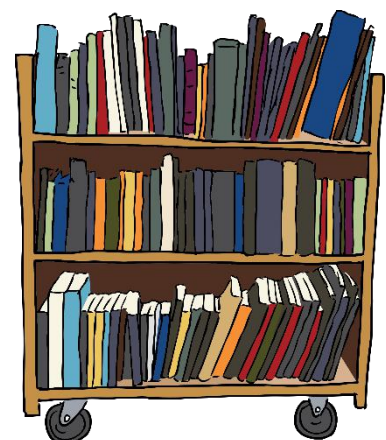
Grade 5 Word Problems Worksheet

A library has 3,489 non-fiction books, 8,617 fiction books and 1,240 reference books.

1. All books, except the reference books, are available for loan. How many books are available for loan?

2. Reference books are for use in the library. There are 16 bookshelves for the reference books. After use, they need to be returned to a special collection box for shelving. If 128 reference books are in use and 84 reference books are in the collection box, how many reference books are on the shelf?

3. Each patron pays an annual fee of \$36 to the library. If the library collects \$20,304 from the annual fee, how many patrons are there?



Answers

- $3,489 + 8,617 = 12,106$
There are 12,106 books available for loan.
- $1,240 - 128 - 84 = 1,028$
There are 1,028 reference books on the shelf.
- $20,304 \div 36 = 564$
There are 564 patrons.
- $3,489 + 8,617 + 1,240 - 564 \times 6 = 9,962$
There are 9,962 books left in the library.
- $2 \times 3 \times 7 = 42$
A patron can keep the books for 42 days.
- $2(9x) = 72$
 $18x = 72$
 $x = 4$