
Answers

- $294 \div 8 = 36 \text{ R}6$
There are 6 extra beds on each floor.
- $294 \times 12 = 3,528$
The maximum number of patients that can stay in the hospital is 3,528.
- $196 + 1,772 + 830 = 2,798$
There are 2,798 staff members employed by the hospital.
- $1,772 - 597 = 1,175$
1,175 nurses are off duty.
- $7 \times 8 \times 12 = 672$
672 nurses are needed for each shift.
 $672 \times 3 - 1,772 = 244$
The hospital needs to employ 244 more nurses.
- $22(x + 150) + 71x = 26,565$
 $22x + 3300 + 71x = 26,565$
 $93x = 23,265$
 $x = 250.16$
Each support staff is paid \$250.16 per shift.