Grade: 4 **Category:** Multiplication and Division

Subcategory: Word problems

Worksheet #: 66Q

- 1. A hostel building in a school has 4 floors with 12 rooms on each floor. Two students can be allotted one room.
 - A) How many students can be allotted to each floor?
 - B) How many students can reside in the hostel building?
 - C) How many rooms are there in the hostel?
 - D) How many students could not get the hostel accommodation, if 109 students applied for hostel accommodation.
 - E) If one housekeeper maintains 4 rooms, then how many housekeepers are required for the hostel?
- 2. A company has 4 printing machines. Each printing machine costs 1,100 \$. Each machine prints 180 pages per minute.
 - A) How much did the printing machines cost to the company?
 - B) How many pages can be printed by the printing machines in 1 hour?
 - C) If one machine goes out of order, how many pages will be printed in 1 hour by the remaining machines?
 - D) An order of printing is completed in 90 minutes using all the machines. How many pages were printed for the order to be completed?



Grade: 4 Category: Multiplication and Division Subcategory: Word problems Worksheet #: 66A

- A) 1 room can be allotted to 2 students.
 12 rooms (on 1 floor) can be allotted to 2 ×12 = 24 students
 Ans. Each floor can be allotted to 24 students.
 - B) 1 floor can accommodate 24 students. 6 floors can accommodate $24 \times 6 = 144$ students. Ans. The hostel can accommodate 144 students.
 - C) 1 floor has 12 rooms.
 6 floors will have 12 × 6 = 72 rooms.
 Ans. Total number of rooms in the hostel = 72
 - D) Number of total applicants =159

 Number of students which can be accommodated in the hostel = 144

 Number of students who will be denied hostel accommodation = 159 144 = 15

 Ans. 15 students will be denied hostel accommodation.
 - E) If 4 rooms are maintained by 1 housekeeper 72 rooms will be maintained by 72 / 4 = 18 housekeepers. Ans. 18 housekeepers are required for the hostel.



2.

- A) Cost of 1 printing machine = 1,100\$ Cost of 4 printing machines = $1,100 \times 4 = 4,400$ \$ Ans. The printing machines cost 4,400\$ to the company.
- B) Number of pages printed by 1 machine in 1 minute = 180 Number of pages printed by 1 machine in 60 minute = $180 \times 60 = 10,800$ Number of pages printed by 4 machines in 60 minutes = $10,800 \times 4 = 43,200$ Ans. The 4 printing machines will print 43,200 pages in 1 hour.
- C) Number of pages printed by 1 machine in 60 minutes = 10,800 Number of pages printed by 3 machines in 60 minutes = $10,800 \times 3 = 32,400$ Ans. The 3 machines will print 32,400 pages in 1 hour.
- D) In 1 minute 1 machine prints 180 pages. In 1 minute 4 machines will print $180 \times 4 = 720$ pages. In 30 minutes 4 machines will print $720 \times 30 = 21,600$ pages Ans. To complete the order 16,200 pages were printed.