

1. A theatre has a total of 1,455 seats arranged on two floors. Ground floor has a capacity of 900 seats. Rest of the seats are in the balcony on the first floor. The cost of the ticket for each seat is 24\$. The theatre runs at full capacity on Saturday and Sunday, However, on other days an average of only 855 seats are filled each day.

- A) How many seats are there in the balcony?
- B) What is the earnings of the theatre owner on Sunday?
- C) What is the average earning of the theatre owner on Monday?
- D) How much does the theatre owner earn in one week?
- E) How many people go to the theatre in one week?

2. Tony reads a book containing 1065 pages in five days. Maria reads another book having 1561 pages in seven days.

- A) How many pages does Tony read each day?
- B) How many pages does Maria read each day?
- C) Who is a fast reader?
- D) How many more pages does Maria read every day?

1.

A) Total number of seats in the theatre = 1,455

Number of seats in ground floor = 900

Number of seats in balcony = $1,455 - 900 = 555$

B) Cost of one ticket = 24 \$

Cost of 1,455 tickets = $24 \times 1,455 = 34,920$ \$*Earning on Sunday* = 34,920 \$

C) Cost of one ticket = 24 \$

Cost of 855 tickets = $24 \times 855 = 20,520$ \$*Earning on Monday* = 20,520 \$D) Earning on Saturday and Sunday (2 days) = $34,920 + 34,920 = 69,840$ \$Earning from Monday to Friday (5 days) = $20,520 \times 5 = 102,600$ \$*Total earning in one week (7 days)* = $69,840 + 102,600 = 172,440$ \$E) People going to theatre on Saturday & Sunday (2 days) = $1,455 + 1,455 = 2,900$ People going to theatre from Monday to Friday (5 days) = $855 \times 5 = 4,275$ *People going to theatre in one week (7 days)* = $2,900 + 4,275 = 7,175$

2.

A) In 5 days Tony reads 1065 pages
In 1 day Tony reads $1065 \div 5 = 213$ pages
Ans. Tony reads 213 pages in 1 day.

B) In 7 days Maria reads 1561 pages
In 1 day Maria reads $1561 \div 7 = 223$ pages
Ans. Maria reads 223 pages in 1 day.

C) *Ans. Maria is a fast reader as she reads more pages than Tony in 1 day.*

D) Number of pages Maria reads more than Tony = $223 - 213 = 10$
Ans. Maria reads 10 pages more than Tony each day.