Mixed operations word problems

Grade 5 Word Problems Worksheet

A stadium has 10,500 seats and 8 VIP boxes. The stadium is divided into 12 equal sections: 2 premium sections and 10 standard sections. A seat at the premium section costs $48 per game. A seat at the standard section costs $27 per game.

1. How many seats are there in each section?

2. If there are 35 seats in each row, how many rows are in each section?

3. If all the seats in the premium section are sold out for a game, how much will the stadium get from those ticket sales?

4. There are 50 games in each season. A season pass costs $2,040. A season pass holder can go to all the games and have a seat in the premium section. How much can a fan save by buying the season pass?

5. For the night game on Tuesday, 8,395 tickets were sold. How many tickets were left?

6. Write an equation using "x" and then solve the equation. Each VIP boxes can seat x people. If all the seats and VIP boxes are filled up, there are 10,628 audience in the stadium.

Answers

1. 10,500 ÷ 12 = 875
   There are 875 seats in each section.

2. 875 ÷ 35 = 25
   There are 25 rows in each section.

3. 875 x 2 x 48 = 84,000
   The stadium will get $84,000 from ticket sales.

4. 50 x 48 – 2,040 = 360
   A fan can save $360 by buying the season pass.

5. 10,500 – 8,395 = 2,105
   There were 2,105 tickets left.

6. $10{,}500 + 8x = 10{,}628$
   $8x = 128$
   $x = 16$

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