Mixed operations word problems

Grade 5 Word Problems Worksheets

Read and answer each question:

A fitness center has a swimming pool and a gym. There are 3,924 members in the fitness club. There are two kinds of membership: regular and VIP. Each regular member pays $25 per month and each VIP member pays $480 per year.

1. There are 2,915 regular members. How many VIP members are there?

2. How much membership fees does the fitness center receive from the regular members each month?

3. How much more does a VIP member pay than a regular member over a year for the fitness center membership?

4. For every 30 members, the fitness center must hire 1 staff member for the gym. How many staff members does the fitness center need to hire for the gym?

5. The lifeguard on duty gets 30 minutes break every 2 hours. How much break time does the lifeguard get during a 6-hour shift?

6. Write an equation using “x” and then solve the equation. During a promotion for the VIP membership program, the new VIP members received a discount of $x. 34 new VIP members signed up and the gym received $13,260 of membership fee from them.
Answers

1. 3,924 – 2,915 = 1,009  
   There are 1,009 VIP members.

2. 2,915 x 25 = 72,875  
   The fitness center receives $72,875 from the regular members.

3. 480 – 25 x 12 = 180  
   A VIP member pay $180 more than a regular member over a year for the membership.

4. 3924 ÷ 30 = 130 R24  
   The fitness center need to hire 131 staff members.

5. 6 ÷ 2 x 30 = 90  
   The lifeguard gets 90 minutes break during a 6-hour shift.

6. 34 (480 – x) = 13,260  
   480 – x = 390  
   x = 90  
   The discount was $90.