

Problem-Solving Strategy:

Choose an Operation

Pythons are the longest snakes in the world. The largest python was found in Indonesia in 1912. It was 396 inches long. Since there are 12 inches in 1 foot, how many feet long was the python?

Understand the problem.

- **What do you want to know?**
the length of the python in feet

- **What information is given?**
It was 396 inches long.
There are 12 inches in 1 foot.

Plan how to solve it.

- **What strategy can you use?**
You can choose the operation needed to solve it.

Add to combine unequal groups.	Multiply to combine equal groups.
Subtract to separate into unequal groups.	Divide to separate into equal groups.

Solve it.

- **How can you use this strategy to solve the problem?**
Since you need to separate the total 396 inches into equal groups of 12 inches, you should divide to find *how many equal groups*.

$$\begin{array}{r}
 33 \\
 12 \overline{)396} \\
 \underline{-36} \downarrow \\
 36 \\
 \underline{-36} \\
 0
 \end{array}$$

- **What is the answer?**
The python was 33 feet long.

Look back and check your answer.

- **Is your answer reasonable?**
You can check division with multiplication.

$$\begin{array}{r}
 33 \\
 \times 12 \\
 \hline
 396
 \end{array}$$

The product matches the dividend.
The answer is reasonable.

Choose an operation to solve each problem.
Then solve the problem.

1. There are 15 teams in the soccer league. Each team has 17 players. How many players are in the league altogether?

Operation _____

Answer _____

2. The average alligator is 180 inches long. How many feet long is an average alligator? (1 foot = 12 inches)

Operation _____

Answer _____

3. North Dakota covers 70,704 square miles. South Dakota covers 77,121 square miles. How much land do the Dakotas cover in all?

Operation _____

Answer _____

4. In 1967, 61,946 people attended the first Super Bowl. In 1968, 75,546 people attended. How many more people went to the second Super Bowl than the first?

Operation _____

Answer _____

5. It is 385 miles between San Francisco and Los Angeles. Driving at 55 miles per hour, how long will the trip take?

Operation _____

Answer _____

6. Charles worked 40 hours this week and made \$520. How much did he earn each hour?

Operation _____

Answer _____

Problem-Solving Applications

Understand, Plan,
Solve, Look back

Solve.

1. There are 4 performances of the school play this weekend. The theater seats 263 people. How many people can see the show this weekend?

Answer _____

2. Fran's Market received 960 cans of soup. The cans arrived in 40 boxes. Each box held the same number of cans. How many cans were in each box?

Answer _____

3. King Cobras are usually 156 inches long. What is the average length of a King Cobra in feet? (1 ft = 12 in.)

Answer _____

4. Domingo ran 7 miles every day. How far did he run in all during the last 23 days?

Answer _____

5. An apartment building has 28 floors. Each floor has 18 apartments. How many apartments are in the building?

Answer _____

6. Each section of the stadium seats 275 people. There are 115 sections. How many people can the entire stadium seat?

Answer _____

7. A total of 158 students went on the Aquarium trip. They took 4 busses. Estimate how many students were on each bus.

Answer _____

8. Jake's Bakery sold 564 pies last week for \$17 each. Estimate the total amount of money the bakery collected for pies last week.

Answer _____