At the Aquarium

Write an equation for each problem. Then solve the problem.

1. A fact sheet at the aquarium listed the sizes of many different sharks. The longest shark is a basking shark, which can grow to 33 feet long. The average length of a bluntnose sixgill shark is 17 feet shorter than that of the largest basking shark. What is the average length of a bluntnose sixgill shark?

2. Shane counted a school of 16 koi in a tank at the aquarium. More koi swam out from behind a rock to join the school. Shane then counted 24 koi in the tank. How many koi swam out from behind the rock?

3. Kaitlyn and Jerome watched a group of penguins at the aquarium. There were one-third as many king penguins in the group as emperor penguins. Kaitlyn counted 12 emperor penguins in all. How many king penguins were in the group?

4. An attendant told Martin that one Adelie penguin came to the aquarium weighing 6 pounds. The penguin now weighs 11 pounds. How much weight did the Adelie penguin gain?

5. A very large great white shark in the aquarium was 21 feet long. It had grown 16 feet since it was born. How long was the shark when it was born?

6. There were two tanks of freshwater fish at the aquarium. One tank held 23 fish. The other held 27 fish. How many freshwater fish were there?
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Write an equation for each problem. Then solve the problem.

Equations and variables may vary.

1. A fact sheet at the aquarium listed the sizes of many different sharks. The longest shark is a basking shark, which can grow to 33 feet long. The average length of a bluntnose sixgill shark is 17 feet shorter than that of the largest basking shark. What is the average length of a bluntnose sixgill shark?

   \[33 - 17 = g; \text{16 feet}\]

2. Shane counted a school of 16 koi in a tank at the aquarium. More koi swam out from behind a rock to join the school. Shane then counted 24 koi in the tank. How many koi swam out from behind the rock?

   \[16 + k = 24; \text{8 koi}\]

3. Kaitlyn and Jerome watched a group of penguins at the aquarium. There were one-third as many king penguins in the group as emperor penguins. Kaitlyn counted 12 emperor penguins in all. How many king penguins were in the group?

   \[k \times 3 = 12; \text{4 king penguins}\]

4. An attendant told Martin that one Adelie penguin came to the aquarium weighing 6 pounds. The penguin now weighs 11 pounds. How much weight did the Adelie penguin gain?

   \[6 + w = 11; \text{5 pounds}\]

5. A very large great white shark in the aquarium was 21 feet long. It had grown 16 feet since it was born. How long was the shark when it was born?

   \[s + 16 = 21; \text{5 feet long}\]

6. There were two tanks of freshwater fish at the aquarium. One tank held 23 fish. The other held 27 fish. How many freshwater fish were there?

   \[23 + 27 = f; \text{50 freshwater fish}\]