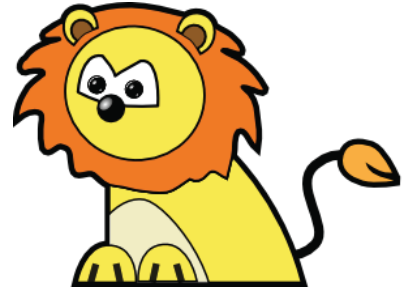# Mass Word Problems

Name: _____   Class: _____

1 stone = 6.35 kilograms, 1 pound = 0.45 kilogram, 1 ounce = 28.35 grams
Show your workings and round answers off to the nearest hundredth.

1. A lion weighs 50 stones. What is the lions's weight in kilograms?

2. Peter weighs 80 kilograms and John weighs 12.5 stones. Who is heavier?

3. A spoon has a mass of 3 ounces. What is the mass of 5 such spoons in grams?

4. The mass of 1 chocolate bar is 0.5 pounds. What is the mass of 10 chocolate bars in grams?
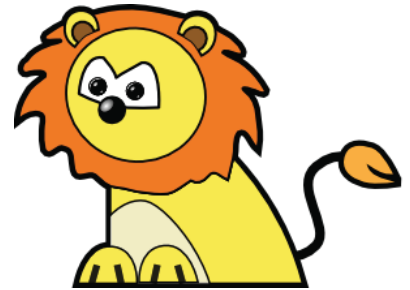
5. A bag of sugar has a mass of 2.1 pounds. If you use 200 grams of it, how many grams of sugar will you have left?

6. A rock weighs 2.5 stones more than a 12.59 kilogram stone. What is the mass of the rock in grams?

Answers

1 stone = 6.35 kilograms, 1 pound = 0.45 kilogram, 1 ounce = 28.35 grams
Show your workings and round answers off to the nearest hundredth.

1.   A lion weighs 50 stones. What is the lions's
      weight in kilograms?

      50 x6.35 = 317.5 kilograms

2.   Peter weighs 80 kilograms and John weighs 12.5 stones.
      Who is heavier?

      12.5 x 6.35 = 79.38 < 80, Peter is heavier

3.   A spoon has a mass of 3 ounces. What is the mass of
      5 such spoons in grams?

      3 x 5 x28.35 = 425.25 grams

4.   The mass of 1 chocolate bar is 0.5 pounds. What is the mass
      of 10 chocolate bars in grams?

      10 x 0.5 x 0.45 = 2.25 kilograms = 2,250 grams

5.   A bag of sugar has a mass of 2.1 pounds. If you use 200
      grams of it, how many grams of sugar will you have left?

      (2.1 x 450) - 200 = 745 grams

6.   A rock weighs 2.5 stones more than a 12.59 kilogram stone.
      What is the mass of the rock in grams?

      (2.5 x 6.35) + 12.59 = 28.47 kilograms = 28,470 grams