

# 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 bird weighs 1.5 pounds. What is the bird's weight in kilograms?



2. A book has a mass of 1,250 grams and a bag has a mass of 44 ounces. Which one is heavier?

3. A candy has a mass of 0.1 ounces. What is the mass of 500 candies in kilograms?



4. The mass of 1 pen is 0.1 pound. What is the mass of 100 pens in grams?

5. After buying 1 kilogram of apples, I gave a 6 ounce apple away. How much of the apples (in grams) did I have left?



6. A pig weighs 3.5 stones more than a 15 kilogram dog. What is the mass of the pig 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 bird weighs 1.5 pounds. What is the bird's weight in kilograms?

$$1.5 \times 0.45 = 0.68 \text{ kilograms}$$



2. A book has a mass of 1,250 grams and a bag has a mass of 44 ounces. Which one is heavier?

$$44 \times 28.35 = 1,247 < 1,250, \text{ the book is heavier}$$

3. A candy has a mass of 0.1 ounces. What is the mass of 500 candies in kilograms?

$$0.1 \times 28.35 \times 500 = 1,417.5 \text{ grams} = 1.42 \text{ kilograms}$$



4. The mass of 1 pen is 0.1 pound. What is the mass of 100 pens in grams?

$$0.1 \times 0.45 \times 100 = 4.5 \text{ kilograms} = 4,500 \text{ grams}$$

5. After buying 1 kilogram of apples, I gave a 6 ounce apple away. How much of the apples (in grams) did I have left?

$$1,000 - (6 \times 28.35) = 829.90 \text{ grams}$$



6. A pig weighs 3.5 stones more than a 15 kilogram dog. What is the mass of the pig in grams?

$$(3.5 \times 6.35) + 15 = 37.23 \text{ kilograms} = 37,230 \text{ grams}$$