

1. A sample of white gold is: 18.0 grams gold, 3.0 grams silver, 2.0 grams cobalt, and 1.0 gram platinum by mass. What is the percent of platinum in the sample?

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2. A 14-karat gold ring contains 7.45 g of gold, 2.66 g of silver and 2.66 g of copper. What is the percentage of gold in the ring?

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3. Water is 11.2% hydrogen by mass. How many kilograms of water would contain 5.0 g of hydrogen?

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4. A ruby gemstone contains 52.3% aluminum, 47.1% oxygen, and small traces of chromium (0.6%). If the ruby was found to contain 0.125 g of aluminum, what is the mass of the gemstone?