Name : ______ Date : _____

Mole to Grams Conversions Worksheet

Answer the following questions.

1) Convert 5 moles of H₂O to grams.

2) Convert 3.5 moles of O_2 to grams.

3) Convert 2 moles of $C_6H_{12}O_6$ to grams.

4) Convert 2.4 moles of S to grams.

5) Convert 11.9 moles of Cr to grams.

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Mole to Grams Conversions Worksheet

Answers

1) Convert 5 moles of H₂O to grams.

Molar mass of $H_2O = 18$ grams/mol 1 mole of H_2O weighs 18 grams 5 moles of H_2O weigh 90 grams

2) Convert 3.5 moles of O_2 to grams.

Molar mass of O_2 = 32 grams/mol 1 mole of O_2 weighs 32 grams 3.5 moles of O_2 weigh 112 grams

3) Convert 2 moles of $C_6H_{12}O_6$ to grams.

Molar mass of $C_6H_{12}O_6 = 180.16$ grams/mol 1 mole of $C_6H_{12}O_6$ weighs 180.16 grams 2 moles of $C_6H_{12}O_6$ weigh 360.32 grams

4) Convert 2.4 moles of S to grams.

Molar mass of S = 32 grams/mol 1 mole of S weighs 32 grams 2.4 moles of S weigh 76.8 grams

5) Convert 11.9 moles of Cr to grams.

Molar mass of Cr = 51.996 grams/mol 1 mole of Cr weighs 51.996 grams 11.9 moles of Cr weigh 618.75 grams