

Mole Calculation Practice Worksheet

Answer the following questions:

- 1) How many moles are in 25 grams of water?

$$\frac{25 \text{ g H}_2\text{O}}{18.02 \text{ g H}_2\text{O}} \times \frac{1 \text{ mol H}_2\text{O}}{1} = 1.4 \text{ moles}$$

- 2) How many grams are in 4.5 moles of Li_2O ?

$$\frac{4.5 \text{ mol Li}_2\text{O}}{1 \text{ mol Li}_2\text{O}} \times \frac{29.88 \text{ g Li}_2\text{O}}{1} = 130 \text{ g}$$

- 3) How many molecules are in 23 moles of oxygen?

$$\frac{23 \text{ mol O}_2}{1 \text{ mol O}_2} \times \frac{6.02 \times 10^{23} \text{ molecules}}{1} = 1.4 \times 10^{25} \text{ molecules}$$

- 4) How many moles are in 3.4×10^{23} molecules of H_2SO_4 ?

$$\frac{3.4 \times 10^{23} \text{ molecules H}_2\text{SO}_4}{6.02 \times 10^{23} \text{ molecules H}_2\text{SO}_4} \times \frac{1 \text{ mol H}_2\text{SO}_4}{1} = 0.56 \text{ moles}$$

- 5) How many molecules are in 25 grams of NH_3 ?

$$\frac{25 \text{ g NH}_3}{17.03 \text{ g NH}_3} \times \frac{1 \text{ mol NH}_3}{1} \times \frac{6.02 \times 10^{23} \text{ molecules NH}_3}{1 \text{ mol NH}_3} = 8.8 \times 10^{23} \text{ molecules}$$

- 6) How many grams are in 8.2×10^{22} molecules of N_2I_4 ?

$$\frac{8.2 \times 10^{22} \text{ molecules N}_2\text{I}_4}{6.02 \times 10^{23} \text{ molecules N}_2\text{I}_4} \times \frac{1 \text{ mol N}_2\text{I}_4}{1} \times \frac{789.42 \text{ g N}_2\text{I}_4}{1 \text{ mol N}_2\text{I}_4} = 110 \text{ g}$$

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John William Hill, Dorothy M. Feigl



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web cervix uterus ovaries figure 1 heifer reproductive tract with other tissue removed to display the anatomy figure 2 the same heifer reproductive tract as in figure 1 opened to display the inner components of this system of tubes an important feature of the cow heifer reproductive tract is its location

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web the brown recluse spider *loxosceles reclusa* belongs to the genus *loxosceles* they are also known as fiddle back or violin spiders recluse spiders are a venomous genus of spider known for their venomous necrotic death of cells and living tissue bite

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web oct 9 2019 the brown recluse spider is a type of recluse spider with a range that is limited to the midwestern and south central united states the species has necrotic venom and its bite like other brown spiders requires immediate medical attention

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web jan 26 2023 the brown recluse spider *loxosceles reclusa* is a part of the family sicariidae also known as six eyed sicariid spiders within the genus *loxosceles* there are actually 11 spiders native to the u s and four of them are known to be of risk to humans expect the following characteristics from sicariid spiders

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web for laypersons the most distinguishing feature of a brown recluse is a dark violin shaped mark on its back with the neck of the violin pointing toward the rear abdomen of the spider this feature is consistent in adult brown recluses but sometimes less obvious in younger spiders

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web nov 17 2022 the brown recluse spider *loxosceles reclusa* is one of the most poisonous spiders in the united states their venom is necrotic meaning that it destroys blood vessels causing tissue near the site of the bite to die getting bitten by one is uncommon and the bite alone rarely kills people

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web nov 3 2022 the brown recluse is part of the *loxosceles* genus of spiders members of this group have violin shaped markings on the top of their cephalothorax fused head and thorax where the legs are

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web the brown recluse is one of three spiders in north america with toxic venom the others being the black widow and the chilean recluse brown recluse spiders are usually between 6 and 20 millimetres 0 24 and 0 79 in but may grow larger while typically light to medium brown they range in color from whitish to dark brown or blackish gray

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web aug 29 2018 the brown recluse spider is also known as the violin or fiddle back spider it lives in midwestern and southeastern parts of the u s this spider is brown and has a darker violin shaped

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web aug 17 2023 brown recluse loxosceles reclusa venomous light tan or yellow spider most common in the western and southern united states it has a body length of about 7 mm 0 25 inch and a leg span of about 2 5 cm 1 inch on the front half of its body the cephalothorax it has a dark violin shaped brown recluse venomous bite symptoms

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web the recluse spiders loxosceles l o k ' s o s i l i : z also known as brown spiders fiddle backs violin spiders and reapers is a genus of spiders that was first described by r t lowe in 1832 they are venomous spiders known for their bite which sometimes produces a characteristic set of symptoms known as loxoscelism

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web apr 24 2023 brown recluses are small spiders with light brown bodies and legs 6 eyes and fine hair on their legs true to their name brown recluses favor sheltered out of the way places and typically aren t out in plain sight brown recluse spiders are native to the southeastern and midwest united states

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web a brown recluse has a dark brown violin shape on the cephalothorax the portion of the body to which the legs attach the neck of the violin points backward toward the abdomen however what you should look at instead is the eye pattern of 6 eyes in pairs with a space separating the pairs most spiders have 8 eyes in two rows of four

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web overview what is a brown recluse spider the brown recluse spider is an eight legged arachnid that is tan to dark brown in color with a violin marking on its back that can range anywhere from 1 4 inch to 1 2 inch long younger spiders or those that have just molted won t have the violin marking

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web the brown recluse or violin spider has an upside down violin thus the nicknames fiddleback spider and violin spider this brown recluse was trapped in an office light fixture and freed in the woods by a friendly receptionist brown recluse or violin

spider hiding under a cushion ultra closeup of a female brown recluse spider