

# Weight and Capacity

NCTM Standards 1, 4, 6, 7, 8, 9, 10

Use the information to estimate your answer.



- 1 A fluid ounce of water weighs a little more than an ounce. About how much does a cup of water weigh?

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- 2 When you have a lot of water, that little bit of extra weight for each fluid ounce can really add up. In a gallon of water, that extra adds up to about **5 ounces** in weight. About how much does a gallon of water weigh?

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- 3 **Two ounces** of popped popcorn fill a **7-cup** bowl. If you want **28 cups** of popcorn for a party, how many ounces do you need?

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- 4 About how many cups of popcorn weigh **1 pound**?

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**A cup of a mystery liquid weighs a little more than 6 oz. A 5-gallon can weighs about 7 lb when it is empty.**



- 5** How much does the can weigh when it is full of the mystery liquid?

5 gallons = \_\_\_\_\_ cups

\_\_\_\_\_ cups of the liquid weigh a bit more than \_\_\_\_\_ oz.

\_\_\_\_\_ oz = \_\_\_\_\_ lb (\_\_\_\_\_ oz = 10 lb)

\_\_\_\_\_ lb + 7 lb = \_\_\_\_\_ lb

- 6** If the can weighs 22 lb, how much liquid is in it?

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- 7 Challenge** Lead is a material that can be melted and poured into molds to form weights like fishing sinkers. Lead is so dense that a cup of melted lead would weigh almost 6 lb. About how much does 1 fluid ounce of melted lead weigh?

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