

Calculating Concrete

Name: _____

Date: _____

Period: _____

Watch the following video and follow directions to complete lesson.

<https://www.loom.com/share/b19987c864994f10901f9c343652dce5>

Use the link below to access the concrete calculator website.

<https://www.calculator.net/concrete-calculator.html>

- 1) Jacob just built a home and needs a sidewalk slab poured. He isn't sure how much concrete he will need to be able to estimate the cost. He wants his sidewalk to be 50 feet long, 3.5 feet wide and 3 inches deep. This is a fairly small job so he wants to do it himself. How many 80 pound bags will he need to get the job done. Round up and add 1 extra bag to be safe.

- 2) Jacob realized he also will need stairs at the end of his sidewalk to lead up to his porch. The run or depth of his stairs will be 12 inches, the rise or height of each step will be 6 inches, the width of his stairs will be 84 inches, the platform/top step will also be 12 inches and he will need 4 steps. Remember he is using 80 pound bags. Round up and add a bag to be safe. How many bags does he need?

- 3) Jesse's wife has been wanting a circular slab concrete firepit in his backyard for a long time. He figured now is a good time to complete his honey do list while stuck at home. She wants the firepit to be 2 feet/24 inches tall, 3 feet inside diameter and 4 feet outside diameter. Jesse's hurt his back so he wants to use 60 pound bags instead of 80 pounds so he doesn't hurt himself more. How many 60 pound bags does he need for the job? Round up and add a bag to be safe.

- 4) Mrs. Zachrich just built a 36 foot by 60 foot barn. She would like to concrete the barn floor. She drives her tractor, harvester and trailer through the barn so she will need to make sure the slab is poured at least 6 inches deep to be able to withstand all the heavy equipment. This is a big job so she is having a concrete truck haul in the mixture. Concrete trucks take orders by the cubic yard for jobs. How many cubic yard does she need to tell them to haul in for the job?

- 5) If Mrs. Zachrich were to buy 80 pound bags to do the job herself how many would she need to pour the concrete slab in her barn?