

Name _____

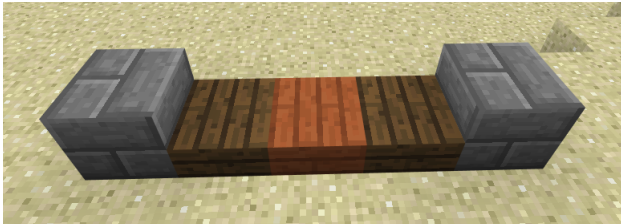
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Building Roads Worksheet

- 1) The good people of the Twin Villages have hired you to turn their small town into the city, as city planners you need to build roads that are 0.2 kilometres each. If each block is 1 meter and there are 1000 meters in a kilometre, how many meters long will your road be?

m= _____

- 2) Each meter of your roads will be made up of 2 whole block curbs and paved with 3 slabs, how many slabs and whole blocks will you need to build a 0.2 kilometre road?



1 meter of road.

- 2a) Write an equation and solve to find out how many whole blocks will be needed to make your road go 200 meters. Use variables B=whole blocks, m=meters

Equation B= _____

m= _____

B= _____

- 2b) Write an equation and solve to find out how many slabs will be need to make your road go 200 meters. Remember slabs are made out of a half a block each so 1 block gave you 2 slabs.

Equation S= _____

m= _____

S= _____

- 3) Now combine the two equations you wrote and make one equation for total blocks needed for the road. Use parentheses separate the two parts and show orders of

operation. Use the variable R=Road to determine how many blocks you will need gather to make a 0.2 kilometre road

Equation R= _____

m= _____

B= _____

S= _____

Final Answer R= _____

4) Jude Washington came up with the equation below, is he right? Test his equation with yours Explain why or why not.

$$R = (2 \times m) + \frac{(3 \times m)}{2}$$
