**Workplace Mathematics 10 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Coin Carpet**

**Big Question**: How can you tile a space with coins? Determine the value of the coins needed to tile the identified surface.

For inspiration, check out the photos here: <http://threeacts.mrmeyer.com/coincarpet/>

1. What equipment/tools will you need to use to answer the big question?
2. How will you figure out how many coins you will need?
3. How should the coins be arranged in the space? You need to use as many coins as possible. You can only use whole coins.
4. How will you figure out how much the coins you use will be worth?

**Your coin**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Your surface**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Your project needs to show all the steps that you used to answer the Big Question.

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**Surfaces in/near the classroom:**

The desk of the study carrel

Large tables

Small desk by the door

Small patch of yellowish floor near Table A

First stair to the skywalk, just outside Room 201

Table where duotangs are kept

**Coins:**

Penny

Nickel

Dime

Quarter

Loonie

Twonie