Scoring Rubric

Student Name _____ Grade _____/28

Criteria	Excellent (4)	Good (3)	Fair (2)	Poor (1)
The fraction representation of each piece is correctly identified.	Correct fraction representations are given for all 6 fraction pieces.	Correct fraction representations are given for 5 fraction pieces.	Correct fraction representations are given for at least 3 fraction pieces.	Incorrect fraction representations are given for 4 or more fraction pieces.
The number of tiles used for covering the floor is computed correctly.	All terms in the number sequence are correct: each number of tiles is multiplied by a corresponding fraction.	One of the terms in the number sequence is incorrect.	Half or more of the terms in the number sequence are incorrect.	The number sequence is not computed correctly.
	The terms are added (or subtracted) in accordance with the tiling design chosen by the student.	There is one minor mistake in using operations in the number sequence.	There are several minor or one large mistake in using operations in the number sequence.	The operations used in the number sequence do not correspond to the tiling design chosen by the student.
	Calculations are completed correctly.	One mistake in calculations.	Two or three mistakes in calculations.	Calculations have major mistakes.
A plausible method has been developed for estimating the remaining area that needs to be covered and correctly estimates the number of tiles needed to cover this area.	The method correctly uses the definition of area – student uses formulas for areas of different regular shapes to estimate the remaining area.	The method correctly uses the definition of area but student only uses formulas for area of rectangle to estimate the remaining area.	The method correctly uses the concept of area, but student only uses counting the grid squares to estimate the area.	The estimation is a guess without explanation.
	The number of tiles is estimated as the ratio of the area of the floor to the area of a unit tile. The area of the unit tile is found correctly.	The number of tiles is estimated as the ratio of the area of the floor to the area of a unit tile. However, the area of the unit tile is found incorrectly.	The number of tiles is estimated by counting pieces rather than as ratio of areas.	The number of tiles is a guess without explanation.
The cost of tiling was computed correctly.	Student correctly adds all tiles necessary to cover the floor and multiplies that by the cost of a unit tile. Final answer is rounded to cents.	Student correctly adds all tiles necessary to cover the floor and multiplies that by the cost of a unit tile. Final answer is not rounded correctly.	Student makes mistakes in adding all tiles necessary to cover the floor and multiplies that by the cost of a unit tile. Final answer is not rounded correctly.	Calculations are inconsistent with the floor design. The final answer is not rounded up correctly.
Total points ____ = ____ ×4 + ___×3 + ___×2 + ___×1				