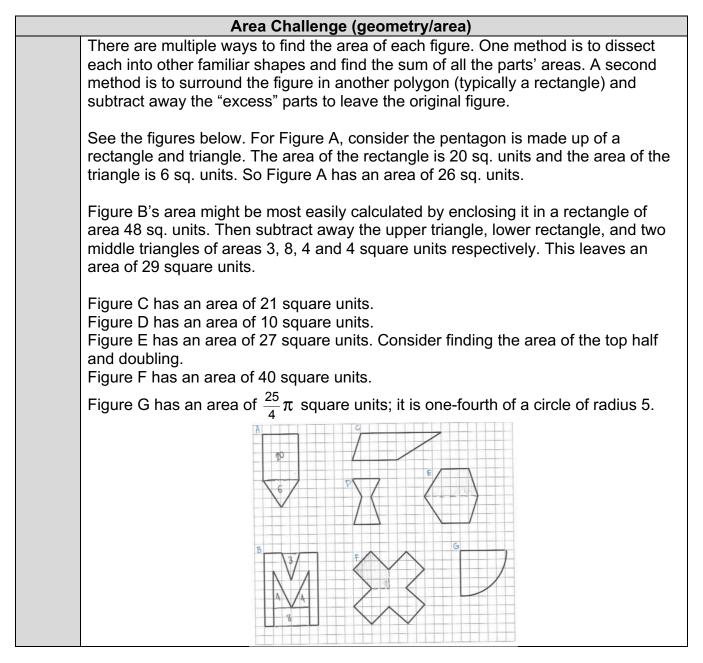
SELECTED SOLUTIONS AND COMMENTS FOR TASKS Grade 6 - Algebra, Geometry, Statistics

Tasks are intended to serve different purposes. When appropriate, students are encouraged to make choices, think strategically, and explain their reasoning. This document contains answers to selected problems. When answers vary, we try to offer an example when possible. When not possible, we describe what a student response could look like. The solutions in this document are not meant to represent an exhaustive list of suitable answers.

My Menu (algebra/expressions and equations)		
	Answers will vary.	

	Building A House (geometry, measurement, scale, percent)		
Part 1	Answers may vary. In the diagram below, each linear unit represents 1 yard. The outer lot is 20 yards by 30 yards, and the shaded area represents Sarah's house. Notice there is a 4 yard (12 foot) border around her land that the house does not touch. Since Sarah's house is going to be 1800 square feet, but her lot is measured in yards, we can convert 1800 square feet into 200 square yards (since there are 9		
	square feet in each square yard). If we limit ourselves to whole yard dimensions, Sarah's house could have dimensions of 10 yards by 20 yards or 25 yards by 8 yards. The 10 yard by 20 yard house is shown below.		
	$\begin{array}{c c c c c c c c c c c c c c c c c c c $		
Part 2	Sarah's house covers 200 square yards of the total 600 square yards. That is one- third of her land, which is less than 40% of her land. Sarah's house meets the regulation.		
Part 3	To cover 40% of the land, Sarah's house would cover 40% of 600 square yards, or 240 square yards. To stay at least 4 yards from the perimeter of her property, the dimensions of her house must be less than 22 yards long and 12 yards wide. Possible dimensions for Sarah's largest possible home include 20 yards by 12 yards.		

SELECTED SOLUTIONS AND COMMENTS FOR TASKS Grade 6 - Algebra, Geometry, Statistics Continued



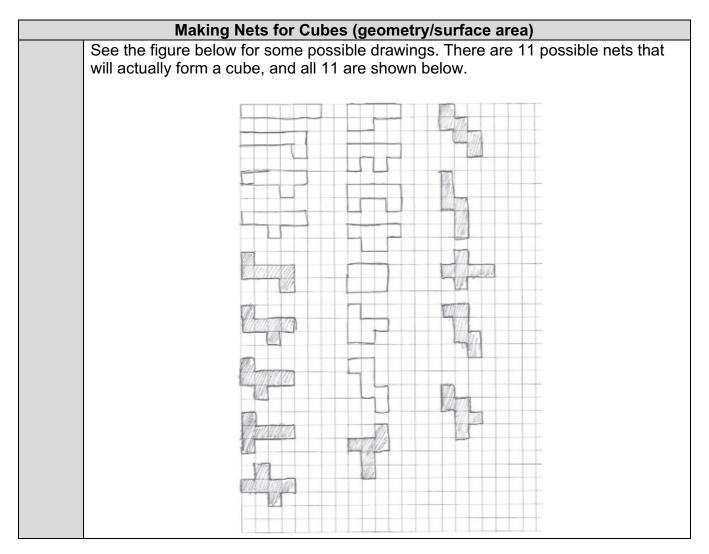
Packing Baseballs (geometry/surface area)

Answers may vary. Box sizes should be small enough to carry and not too heavy.

SELECTED SOLUTIONS AND COMMENTS FOR TASKS

Grade 6 - Algebra, Geometry, Statistics

continued



SELECTED SOLUTIONS AND COMMENTS FOR TASKS Grade 6 - Algebra, Geometry, Statistics continued

	C	Greg's Savings I	Plan (tables, eq	uations, graphs, ratios)
1		Number of	Total Saved	
		Months	in Dollars	
		0	100	··· · ································
		1	120	
		2	140	300
		3	160	
		4	180	
		5	200	200
		6	220	
		7	240	
		8	260	100.
		9	280	
		10	300	
		11	320	0 5 10 15
		12	340	
		13	360	
		14	380	
	months h	ne can buy the pr	inter.	an buy the camera. Then after another 7
		h at the right sho		ess in saving. esent equivalent ratios.
		areu pairs in the t		esent equivalent ratios.
	The inde amount s	•	is number of me	onths, and the dependent variable is
2	Answers	may vary.		
				cooner, but will take until month 14 to d table will be the same as above.

Painting Marco's and Rocky's Rooms (area; measurement; rates; percent)
Answers may vary.

Conduct a Survey (statistics)					
	Answers may vary.				