

Mathematics Assessment Program ***CCR-B1***

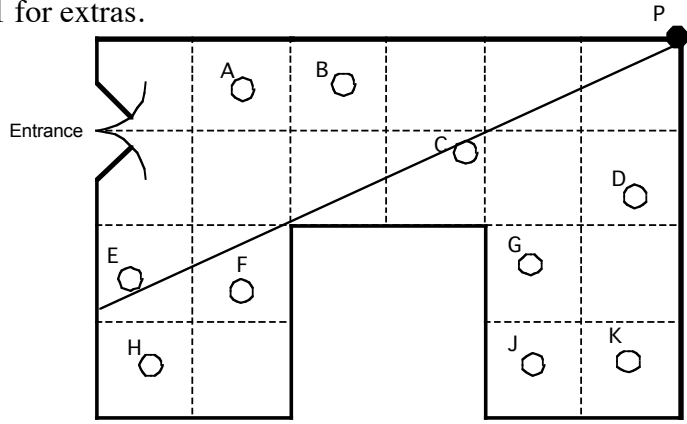
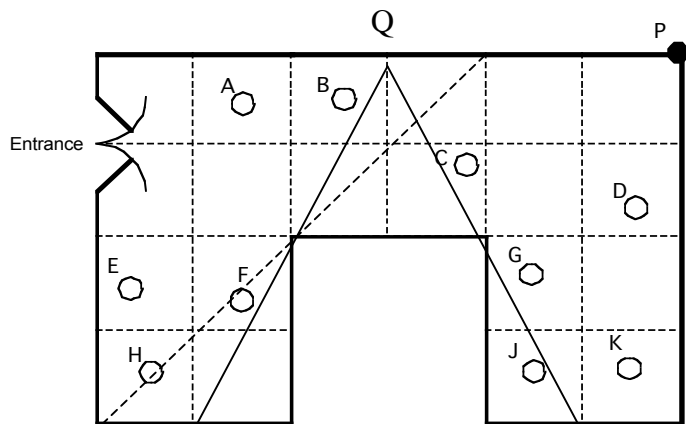
College and Career Readiness Mathematics

**Scoring Rubric
(Draft)**

These tests were developed with support from the Bill and Melinda Gates Foundation

Short Tasks		
Q	Answer	Points
1	$\sqrt[6]{7}, \sqrt{7}$	1
2	$x^4 - 4x^3 - 23x^2 + 19x - 35$	1
3	<ul style="list-style-type: none"> • Graph C • Graphs A and B 	1
4	$\sqrt{3}$	1
5	<p>Medians are:</p> <p>A 28</p> <p>B 36</p> <p>C 32</p> <p>Aaron and Claude are equally close to 30.</p> <p>So they are equally good best estimators.</p>	1
Total		5

Yogurt		Rubric	
		Points	Section points
1.	Gives correct answer: 15¢ Shows calculation such as: $\frac{20}{100} \times 75$	1 1	2
2.	Gives correct answer: 50 gallons Shows calculation such as: $1600 \times \frac{1}{4} \times \frac{1}{8}$	1 1	2
3.	Gives correct answer: 2500 gallons Shows calculation such as: $50 \times 10 \times 5$	2 1 ft	3
4.	Gives correct answer: 40% <i>Partial credit</i> Gives answer :140% Shows calculation such as: $\frac{2}{5} \times 100$	2 (1) 1 ft	3
Total Points			10

Security Camera		Rubric	
		Points	Section points
1.	<p>Draws a straight line from the security camera (P) to the opposite side of the room as shown. May describe the sight line. This line shows that F and H cannot be seen by the camera at P. Minus 1 for extras.</p> 	1 2	3
2.	<p>Correctly, shows/explains the area that cannot be seen by the camera. Three of the twenty squares cannot be seen $3/20 = 15\%$</p>	1 1 1	3
3.	 <p>Q can be placed one square left or right of the centre.</p> <p>The area of two of the twenty squares cannot be seen if the camera is placed at Q (or to the side of Q), the centre of the side. $2/20 = 10\%$</p> <p><i>Partial credit</i> Correctly shows the area that cannot be seen but no calculation.</p>	1 1 2 (1)	4
Total points			10

Sidewalk Stones	Rubric	
	Points	Section points
<p>Gives correct answers and shows correct calculations such as:</p> <p>Number of gray Stones $4n^2 + (2n + 1)^2 = 8n^2 + 4n + 1$</p> <p>Number of white stones $4n(2n + 1) = 8n^2 + 4n$</p> <p>Calculates pattern number for 841 gray stones $4n^2 + (2n + 1)^2 = 841$ $2n^2 + n - 210 = 0$ $(2n + 21)(n - 10) = 0$ n = 10</p> <p>Provides clear explanations <i>Partial credit</i></p> <p>Provides some explanation</p> <p>Finds the number of white stones $4 \times 10 \times 21 = 840$</p>	<p>3</p> <p>2</p> <p>2</p> <p>2</p> <p>(1)</p> <p>1</p>	<p>10</p>
Total Points		10

Sugar Prices		Rubric	
		Points	Section points
(a). Gives correct answer: D	1	1	
(b). Gives correct answer: B	2	2	
©. Gives correct answer: C and E	2	2	
(d). Gives correct answer: A and C	2	2	
(e). Gives correct answer: C Gives correct explanation such as: price ÷ weight is smallest ratio	1 2	3	
Total Points			10