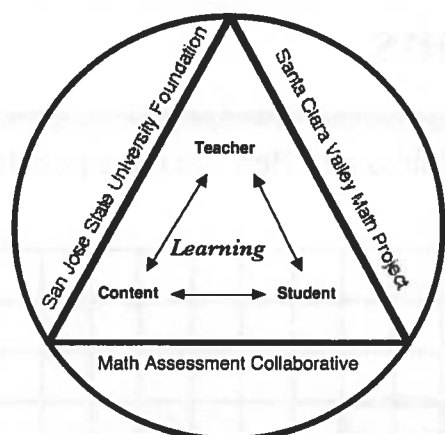


# Mathematics Assessment Collaborative



The Silicon Valley Mathematics Initiative

## Third Grade Exam

### Spring 2012

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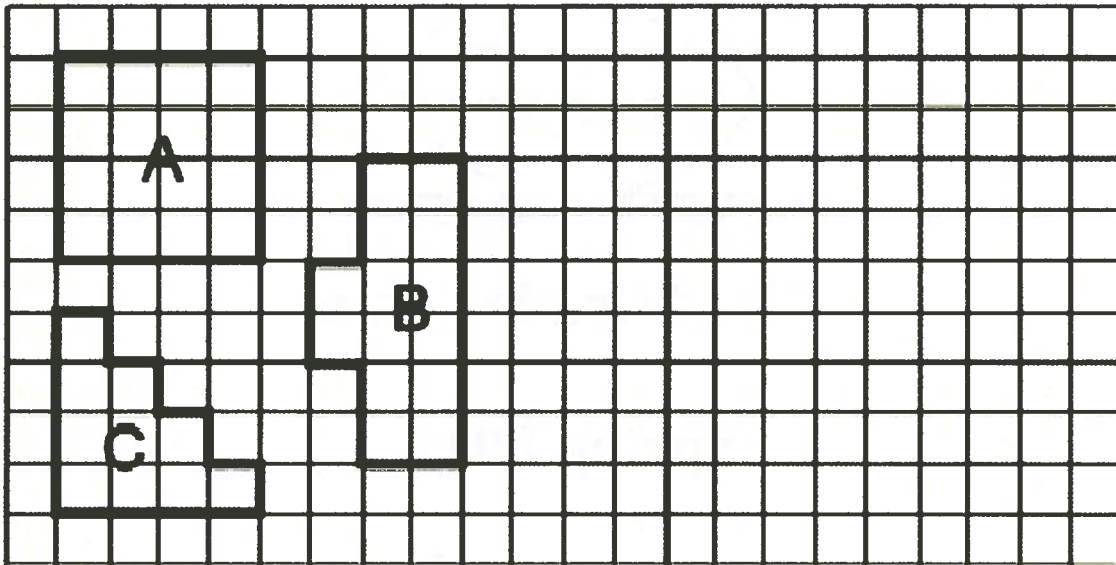
<b>Task</b>		
Clubhouse Plans (7)		
Cookie Dough (7)		
Rise and Shine! (9)		
Travel for Work (7)		
Worms (10)		
Total (40)		

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# Clubhouse Plans

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Marco is going to build a clubhouse. Here are three possible plans.



On the grid above, each small square is 1 unit long and 1 unit wide.

1. What is the area of Plan A? \_\_\_\_\_ square units.

2. Marco thinks Plan A has a larger area than plans B or C.  
Explain how he figured it out.

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3. On the grid, draw a different plan with the same area as Plan A.  
Label your plan D.



4. Marco thinks Plan C has a larger perimeter than Plans A and B.  
Explain why Marco is wrong.

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# Cookie Dough

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Clear Creek School is fundraising.  
They are selling Cookie Dough in tubs.



<b>Chocolate Chip Cookie Dough \$5 a tub</b>	<b>Peanut Butter Cookie Dough \$4 a tub</b>	<b>Oatmeal Cookie Dough \$3 a tub</b>
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1. Jill sold 2 tubs of Oatmeal Cookie Dough.

How much did she raise? \$ \_\_\_\_\_

2. Joe sold 4 tubs of Peanut Butter Cookie Dough and 4 tubs of Chocolate Chip Cookie Dough.

How much money did he raise in all? \$ \_\_\_\_\_

Show how you figured it out.

3. Jade sold only Peanut Butter Cookie Dough. She raised \$32.

How many tubs did she sell? \_\_\_\_\_ tubs

Show how you figured it out.

4. Jermaine's mother loves oatmeal cookies. She has \$20. to spend.

What is the greatest number of tubs of Oatmeal Cookie Dough she can buy?

\_\_\_\_\_ tubs

Explain how you figured it out.

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# Rise and Shine!

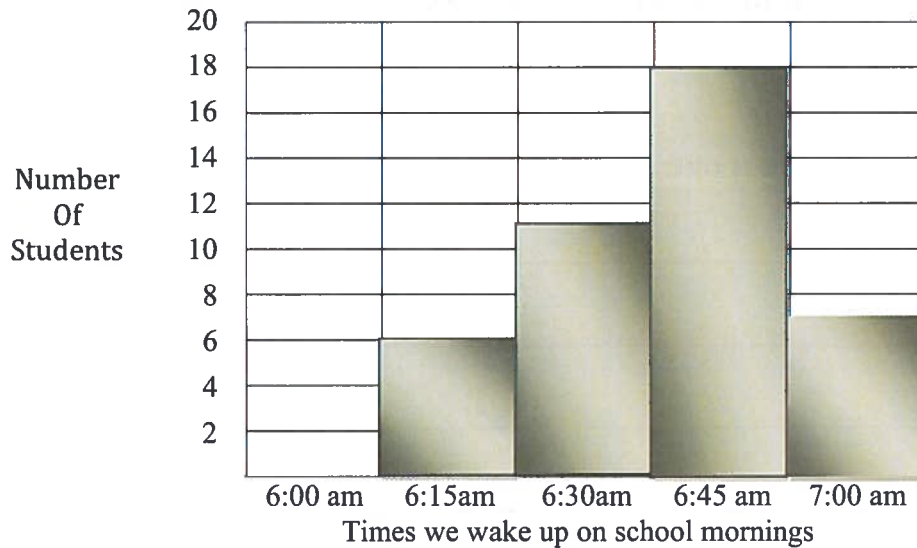
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Third graders wanted to show the times at which they get up on school mornings. Here is a list to show these times.

1. Complete this chart using the bar graph below.

Times	Number of students
6:00 am	9
6:15 am	
6:30 am	11
6:45 am	18
7:00 am	7

2. Complete the bar graph below using the chart above.



3. At what time did the least number of students wake up? \_\_\_\_\_

4. How many students get up before 6:45am? \_\_\_\_\_  
Show how you figured it out.

5. How many more students get up at 6:45 am than at 6:00 am? \_\_\_\_\_  
Show how you figured it out.

6. How many third graders showed their **Rise and Shine** times on this bar graph?  
\_\_\_\_\_

Show how you figured it out.

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# Travel for Work

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Lily's mom travels for work on Mondays through Fridays.  
She recorded her miles traveled in a table.

**Miles Traveled February 13 - 17, 2012**

Day	Miles Traveled
Monday	383
Tuesday	451
Wednesday	276
Thursday	379
Friday	554

1. On which day did she travel the least? \_\_\_\_\_
2. On which day did she travel the most? \_\_\_\_\_
3. How many more miles did Lily's mom travel on Tuesday than on Monday?  
\_\_\_\_\_ miles

Show how you figured it out.



4. On which 2 days **in a row** did she travel over 900 miles?

\_\_\_\_\_ and \_\_\_\_\_

Explain how you figured it out.

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5. About how many miles did Lily's mom travel this week?

Circle the correct answer.

**200**

**2000**

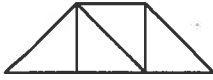
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# Worms

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Mrs. Wong's class is building worms with blocks.



**1 day old**  
**4 blocks**



**2 days old**  
**6 blocks**



**3 days old**  
**8 blocks**

1. Draw a diagram to show how to build a 4 day old worm with blocks.

2. Complete this table to show the number of blocks it takes for a 4 days old worm and a 5 days old worm.

<b>Worm age in days</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
<b>Number of blocks</b>	<b>4</b>	<b>6</b>	<b>8</b>		

3. How many blocks will it take to build a 7 days old worm? \_\_\_\_\_ blocks

Explain how you figured it out.

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4. If a student builds a worm with 20 blocks, how old will it be?

\_\_\_\_\_ days old

Tell how you know.

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5. Mrs. Wong thinks the students will build a 12 days old worm with 24 blocks.

Explain how you know that she is wrong.

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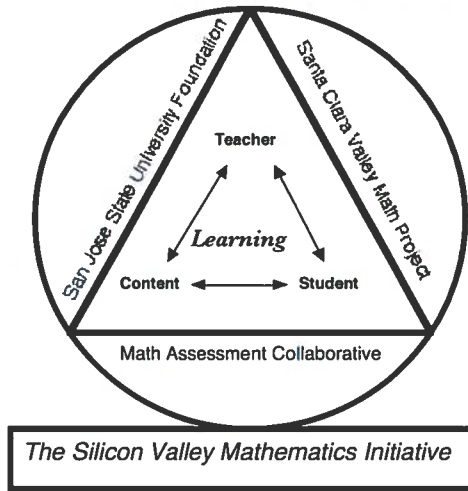
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The students will need \_\_\_\_\_ blocks to build a 12 days old worm.

# Mathematics Assessment Collaborative



## Third Grade Exam Spring 2013

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<b>Task</b>	<b>Score</b>	<b>Score Ck</b>
Equal Shares (7)		
Lunchtime Clean Up (10)		
Multiplication Facts (7)		
Kitchen Tiles (8)		
Tables and Chairs (8)		
Total (40)		