

# **Algebraic Relations**

Scorer	CU	PS	V	C	Acc

Name \_\_\_\_\_

Date \_\_\_\_\_

Teacher \_\_\_\_\_

Exceeds    Meets    Does Not Yet Meet    On-Demand    Revised/Redone    Modified

Comments: \_\_\_\_\_

\_\_\_\_\_

(Algebraic Relations)

## Bags of Potatoes

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Bags of potatoes are emptied into 1 bin. The first bag is 1 pound. The second bag is 2 pounds. The third bag is 3 pounds. Each bag is one pound more than the previous bag. This continues until there are 21 pounds in the bin. How many bags were emptied into the bin? How do you know this is correct?

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## Calendar Pattern

A class made a pattern for their calendar on month. Using their pattern, what values should go in the 4 missing days of the second week? Explain how you know and how you verified your work.

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	3¢	6¢	5¢	8¢	7¢	10¢
9¢	12¢	11¢				

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## How Many Fathoms?

Captain Perez told his sailors they were in water that was 60 feet deep. Sailor Sam asked how many fathoms that is. Sailor Sue answered 10 fathoms. She told Sam, “1 fathom is 6 feet, 2 fathoms is 12 feet, and so on.” How many fathoms would 36 feet be? Explain and verify your work.

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## Jellybean Counter

A jellybean machine records the number of jellybeans it holds. It holds 98 jellybeans when it is full. The following table shows the jellybeans in the machine.

<b>Full</b>	<b>1<sup>st</sup> Twist</b>	<b>2<sup>nd</sup> Twist</b>	<b>3<sup>rd</sup> Twist</b>	<b>4<sup>th</sup> Twist</b>	<b>5<sup>th</sup> Twist</b>	<b>6<sup>th</sup> Twist</b>	<b>7<sup>th</sup> Twist</b>
98	91	84	77	70			

If the jellybeans continue to come out the same way, what will the jellybean counter show for the next 3 twists? Tell how you know and how you verified your work.

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## Work on the Farm

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Pat earns \$4.00 an hour on Grandpa's farm. How many hours must Pat work to earn \$48.00?

<b>Hours</b>	<b>1</b>	<b>2</b>
<b>Earned</b>	<b>\$4</b>	<b>\$8</b>