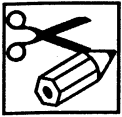


## Paying Patterns

Leader



Reinforce the patterns strategy.



You will need:

- Calculator (optional)



Do this:

- Upon completion of the Student Page, the problems should be thoroughly discussed with the student.
- Suppose you were offered a job and the employer said she would pay your salary as follows: one penny the first day, two pennies the second day, four pennies the third day, eight pennies the fourth day, and so on to the end of the month.



1. How much would you be paid for working on the thirteenth day?

Day	1	2	3	4	5	6	7	13
Salary	1	2	4	8	16	32	64	$2^{12} = \$40.96$

2. How much money would you have earned altogether for thirteen days?

Total earned	1	3	7	15	31	63	127	$2^{13} - 1 = \$81.91$
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Student \_\_\_\_\_



Do this:

- Use your knowledge of patterns to solve the following:

- How much money:

Suppose you were offered a job and the employer said she would pay your salary as follows:

one penny the first day, two pennies the second day, four pennies the third day, eight pennies the fourth day, and so on to the end of the month.



1. How much would you be paid for working on the thirteenth day?

Day	1	2	3	4	5	6	7	13
Salary								

2. How much money would you have earned altogether for thirteen days?

Total earned								
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3. How much would you earn on the thirtieth day?



WHAT I FOUND