

7. Sandhu lights a candle at 6 pm. It is 30 cm high.
 At 7 pm, the candle is 27 cm high.
 At 8 pm, it is 24 cm high.



- a) How many cm does the candle burn down every hour?
 Write your answers (with a minus sign) in the circles provided.
- b) How high is the candle at 11 pm?

Hour	Height of the Candle
6 pm	30 cm
7 pm	27 cm
8 pm	24 cm
9 pm	
10 pm	

8. Abdullah has \$35 in his savings account at the end of March.
 He spends \$7 each month.

Month	Savings
March	\$35

How much does he have in his account at the end of June?

10. Karen has \$57 in her savings account at the end of June.
 She spends \$6 each month:

Month	Savings

How much does she have at the end of September?

9. Allishah has \$38 in her savings account at the end of October.
 She spends \$6 each month.

Month	Savings

How much does she have at the end of January?

11. A fish tank contains 20 L of water at 5 pm.
 3 L of water leaks out each hour.

Time	Amount of Water

How much water is left at 8 pm?

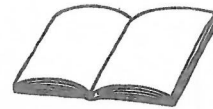
PA4-14: Problem Solving with Patterns

Answer the following questions in your notebook.

1. A marina rents canoes at \$7 for the first hour and \$4 for every hour after that. How much would it cost to rent a canoe for 6 hours?



2. A bookstore has a special sale: the first book you buy costs \$10 and each book after that costs \$5. Claude has \$25. Does he have enough to buy five books?



3. The snow is 19 cm deep at 3 pm. 5 cm of snow falls every hour. How deep is the snow at 7 pm?



4. Jacob saves \$30 in July. He saves \$4 each month after that. Amanda saves \$22 in July. She saves \$6 each month after that. Who has saved the most money by the end of January?

5. Draw a picture or make a sequence of models (using blocks or counters) that match the pattern.

a)

Figure	Number of Objects
1	4
2	6
3	8

b)

Figure	Number of Objects
1	3
2	6
3	9

c)

Figure	Number of Objects
1	4
2	7
3	10

6. Edith's maple sapling grows 5 cm in July. It grows 7 cm each month after that. Ron's sapling grows 7 cm in July. It grows 3 cm each month after that. Whose sapling is higher by the end of September?

7. Chloe's candle is 28 cm high when she lights it at 5 pm. It burns down 4 cm every hour. Dora's candle is 21 cm high when she lights it at 5 pm. It burns down 3 cm every hour. Whose candle is taller at 10 pm?

