

Vocabulary

Review



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Problem 1 Identifying a Pattern

Got If? Look at the figures from left to right. What is the pattern? Draw the next figure in the pattern. 10. There are white squares in the first figure. 11. There are more white squares in the second figure. 12. Describe the pattern. 13. Draw the next figure in the pattern.

Problem 2 Expressing a Pattern with Algebra

Got lt? How many tiles are in the 25th figure in this pattern? Use a table of values with a process column.



14. Complete the table of values.

Process Column	Number of Tiles (Output)
1 + (2 · 1 + 1)	4
$1 + (2 \cdot 1)$	
$1 + (2 \cdot (2 + 1))$	
$1 + (2 \cdot 1)$	10
:	:
	Process Column $1 + (2 \cdot 1 + 1)$ \vdots

15. There are 25(

+ 2, or _____, tiles in the 25th figure of this pattern.

16.	Explain how the table of values helps you find the number of tiles in the
	25th figure.

Problem 3 Using a Graph

Got lt? The graph shows the total cost of platys at the aquarium shop. Use a table to find the cost of six platys.

17. Circle the description of the input value. Underline the description of the output value.

cost of platys number of platys process total cost

18. Complete the table of values.

(Input)	Process Column	(Output)
1	1 · 2	
2	· 2	4
	3.	6
6	•	
÷	÷	÷
п	•	2



Underline a number or expression to complete each sentence.

- **19.** In the table, when the input value is 6, the output value is $\frac{2}{6}$.
- **20.** The expression n/2n/3n describes the cost of 1/2/n platys.
- **21.** At the aquarium shop, six platys cost \$

ake a table to represent each pa	tern. Use a process column.
2. 2, 4, 6, 8	23.

Lesson Check • Do you UNDERSTAND?

Error Analysis Your friend looks for a pattern in the table at the right and claims that the output equals the input divided by 2. Is your friend correct? Explain.	Input 3 6.8 8 10 25
24. Circle the rule that applies to most of the input and output values.	
Output= Input \div 3Output= Input \cdot 2	Output = Input ÷ 2
25. Does the input value of 3 follow this rule?	Yes / No
26. Does the table represent a pattern? Explain.	

Ma	th S	UCC	es	5										
Check off the vocabulary words that you understand.														
variable algebraic expression											n			
Rate how w	vell y	ou ca	an <i>de</i>	eterm	ine	pat	tern	s.						
Need to review	0 	2		4		6		8		10	•		Now get it	r I t!