

# Enrichment Packet #7

Due: Monday 10/22

NAME: \_\_\_\_\_

Name \_\_\_\_\_

Enrichment

**4-1**

# Babysitting in the Neighborhood

**Reasoning**

Jennifer babysits for some of the families in her neighborhood. She wants to decide how she can earn the most money. She has made a chart that shows how long she usually babysits for a family and how much she is paid for her job.

Family	Hours	Amount Paid
Roberts	6	\$30
Robinsons	6	\$24
San Giacomos	8	\$40
Lings	5	\$35
Oberlins	7	\$42

1. Which family pays the most per hour? What is the hourly rate?  
\_\_\_\_\_
2. Which family pays the least per hour?  
\_\_\_\_\_
3. Which would pay more, 8 hours of babysitting for the Oberlins or 7 hours of babysitting for the San Giacomos?  
\_\_\_\_\_  
\_\_\_\_\_
4. On one Friday night, Jennifer is asked to babysit for two different families. The Robinsons need her for 5 hours, and the Lings want her to babysit for 4 hours. If Jennifer can only take one job and wants to make the most money, which job should she take? How much will she earn?  
\_\_\_\_\_  
\_\_\_\_\_
5. On a different Friday night, the Roberts offer Jennifer a 5-hour babysitting job with a \$4 tip, and the Robinsons offer Jennifer an 8-hour babysitting job. Which job should Jennifer take? How much more will she earn?  
\_\_\_\_\_  
\_\_\_\_\_

Enrichment 4-1

# Just the Fact(or)s

Some numbers have several factors. Complete the following to find all of the factors of 12. The first one is done for you.

**Visual Thinking**

1.  $\square\square\square\square\square\square\square\square\square\square\square\square \div \begin{matrix} \square\square\square\square\square\square \\ \square\square\square\square\square\square \end{matrix} = 12 \text{ in a group}$   
 12 1 group

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2.  $\square\square\square\square\square\square\square\square\square\square\square\square \div \begin{matrix} \text{ } \\ \text{ } \end{matrix} = 6 \text{ in a group}$   
 12 2 groups

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3.  $\square\square\square\square\square\square\square\square\square\square\square\square \div \begin{matrix} \text{ } \\ \text{ } \\ \text{ } \\ \text{ } \end{matrix} = \text{ } \text{ in a group}$   
 12 4 groups

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4.  $\square\square\square\square\square\square\square\square\square\square\square\square \div \begin{matrix} \text{ } \\ \text{ } \\ \text{ } \end{matrix} = 4 \text{ } \underline{\hspace{2cm}}$   
 12 \_\_\_\_\_ groups

5. There are 6 numbers that are factors of 12. What are they?

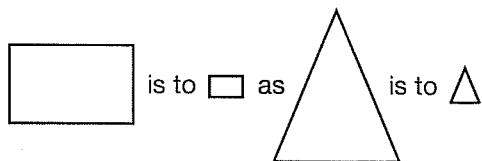
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Enrichment 4-2

# Analyze This

An analogy is often used to show the relationship between pairs of items.

**Reasoning**



1. How are the drawings of the rectangles related?

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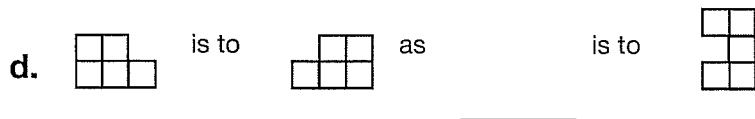
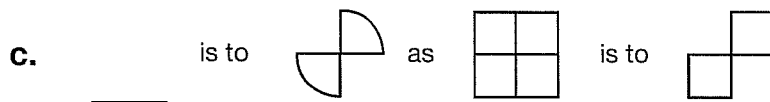
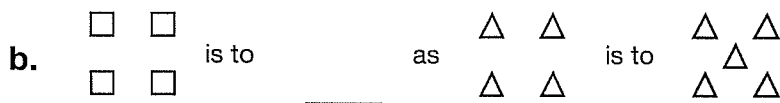
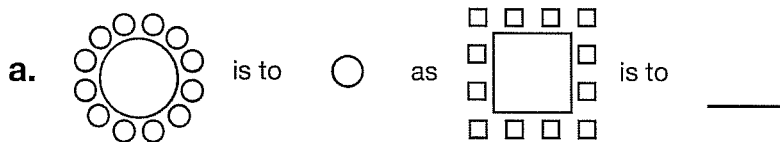
2. How are the drawings of the triangles related?

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3. Draw the missing item in the following analogies.



# Tables That Rule

Below are some tables. Dewey, Corrie, and Isaac each try to guess the rule. If the rule is correct, write **yes**. If the rule is incorrect, write the correct rule. Complete each table.

**Patterns**

1. Dewey says, "The rule for this table is divide by 4."

<b>Dewey's Table</b>	16	32	56	48	12	18	24	30	<i>n</i>
	8	16	28						

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2. Corrie says, "The rule for this table is multiply by 2, then subtract 1."

<b>Corrie's Table</b>	7	2	6	4	12	3	10	5	11	<i>n</i>
	13	3	11							

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3. Isaac says, "The rule for this table is add 1."

<b>Isaac's Table</b>	2	9	6	4	3	5	8	7	9	<i>n</i>
	3	24	15	9						

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Name \_\_\_\_\_

Enrichment

**4-5**

## Just the Facts

Write each missing number. Then, write a related multiplication fact.

**Number Sense**

	Missing Number	Related Fact
1. $27 \div 3 =$	_____	_____
2. $48 \div 6 =$	_____	_____
3. $32 \div 8 =$	_____	_____
4. $18 \div 3 =$	_____	_____
5. $63 \div 9 =$	_____	_____

Choose from the missing numbers you found above to make these sentences true.

- There are \_\_\_\_\_ pints in 3 quarts.
- There are \_\_\_\_\_ legs on an octopus.
- There are \_\_\_\_\_ days in a week.
- A baseball game lasts \_\_\_\_\_ innings.
- A dog has \_\_\_\_\_ legs.

Enrichment 4-5