

Volcano Language & Math Pack for 2nd & 3rd Grades

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Name: _____

Copywork

Copy the sentence written below.

A volcano is an opening in the earth's crust through which molten rock, hot gases, and other materials erupt.

Handwriting practice lines consisting of four sets of three horizontal lines (top solid, middle dashed, bottom solid) for copying the text.



Name: _____

Copywork

Copy the sentence written below.

A volcano is an opening in the earth's crust through which molten rock, hot gases, and other materials erupt.



Name: _____



Punctuation

Re-write each sentence with the correct punctuation and capitalization.

1. molten rock hot gasses and other materials erupt from volcanoes

2. have you been to visit mount st helens volcano

3. the hawaiian islands were created through volcanic activity

ANSWER KEY

Punctuation



Re-write each sentence with the correct punctuation and capitalization.

1. molten rock hot gasses and other materials erupt from volcanoes

Molten rock, hot gasses, and other materials erupt from volcanoes.

2. have you been to visit mount st helens volcano

Have you been to visit Mount St. Helens volcano?

3. the hawaiian islands were created through volcanic activity

The Hawaiian islands were created through volcanic activity.

Name: _____

Sentence Fragments

A complete sentence must have a subject and a verb. Read the following sentences. Some are complete sentences that include both a subject and a verb. Others are fragments that are missing a subject or verb. Mark the correct box to indicated whether each sentence is a complete sentence or a fragment.

- | | complete
sentence | fragment |
|--|--------------------------|--------------------------|
| 1. All five major volcanoes in Washington. | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Scientists monitor four active volcanoes on the island of Hawaii. | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Mauna Loa, the largest volcano on Earth. | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. Haleakalā, the only active volcano on the island of Maui, last erupted between 600 and 400 years ago. | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. A volcano is an opening in the earth's crust through which lava, volcanic ash, and gases escape. | <input type="checkbox"/> | <input type="checkbox"/> |

ANSWER KEY

Sentence Fragments

A complete sentence must have a subject and a verb. Read the following sentences. Some are complete sentences that include both a subject and a verb. Others are fragments that are missing a subject or verb. Mark the correct box to indicated whether each sentence is a complete sentence or a fragment.

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|--|-------------------------------------|-------------------------------------|
| 1. All five major volcanoes in Washington. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. Scientists monitor four active volcanoes on the island of Hawai'i. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Mauna Loa, the largest volcano on Earth. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
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| 5. A volcano is an opening in the earth's crust through which lava, volcanic ash, and gases escape. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Name: _____

Alphabetize



*Inside the box are names of famous volcanoes.
Write the names in alphabetical order on the lines below.*

Mount Vesuvius
Krakatoa
Mount St. Helens
Mount Tambora
Mauna Loa

Eyjafjallajokull
Mount Pelee
Mount Pinatubo
Nevado del Ruiz
Thera

Mount Fuji
Kilauea
Mount Kilimanjaro
Mount Rainier
Mount Stromboli

1. _____

9. _____

2. _____

10. _____

3. _____

11. _____

4. _____

12. _____

5. _____

13. _____

6. _____

14. _____

7. _____

15. _____

8. _____

ANSWER KEY

Alphabetize



*Inside the box are names of famous volcanoes.
Write the names in alphabetical order on the lines below.*

Mount Vesuvius
Krakatoa
Mount St. Helens
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Mount Pelee
Mount Pinatubo
Nevado del Ruiz
Thera

Mount Fuji
Kilauea
Mount Kilimanjaro
Mount Rainier
Mount Stromboli

1. **Eyjafjallajokull**

9. **Mount Rainier**

2. **Kilauea**

10. **Mount St. Helens**

3. **Krakatoa**

11. **Mount Stromboli**

4. **Mauna Loa**

12. **Mount Tambora**

5. **Mount Fuji**

13. **Mount Vesuvius**

6. **Mount Kilimanjaro**

14. **Nevado del Ruiz**

7. **Mount Pelee**

15. **Thera**

8. **Mount Pinatubo**

Name: _____



Articles

Circle the correct article for each noun.

<p>1</p> <p>vent</p> <p><i>a</i> <i>an</i></p>	<p>2</p> <p>eruption</p> <p><i>a</i> <i>an</i></p>
<p>3</p> <p>ash cloud</p> <p><i>a</i> <i>an</i></p>	<p>4</p> <p>tectonic plate</p> <p><i>a</i> <i>an</i></p>
<p>5</p> <p>lava flow</p> <p><i>a</i> <i>an</i></p>	<p>6</p> <p>earthquake</p> <p><i>a</i> <i>an</i></p>
<p>7</p> <p>crater</p> <p><i>a</i> <i>an</i></p>	<p>8</p> <p>ice cap</p> <p><i>a</i> <i>an</i></p>

ANSWER KEY



Articles

Circle the correct article for each noun.

<p>1</p> <p>vent</p> <p><i>a</i> <i>an</i></p>	<p>2</p> <p>eruption</p> <p><i>a</i> <i>an</i></p>
<p>3</p> <p>ash cloud</p> <p><i>a</i> <i>an</i></p>	<p>4</p> <p>tectonic plate</p> <p><i>a</i> <i>an</i></p>
<p>5</p> <p>lava flow</p> <p><i>a</i> <i>an</i></p>	<p>6</p> <p>earthquake</p> <p><i>a</i> <i>an</i></p>
<p>7</p> <p>crater</p> <p><i>a</i> <i>an</i></p>	<p>8</p> <p>ice cap</p> <p><i>a</i> <i>an</i></p>

Name: _____



Nouns and Verbs

Which words are nouns and which words are verbs?
Read each word, then circle the correct answer.

<p>1</p> <p>volcano</p> <p>noun verb</p>	<p>2</p> <p>erupt</p> <p>noun verb</p>
<p>3</p> <p>burn</p> <p>noun verb</p>	<p>4</p> <p>lava</p> <p>noun verb</p>
<p>5</p> <p>rocks</p> <p>noun verb</p>	<p>6</p> <p>drip</p> <p>noun verb</p>
<p>7</p> <p>crater</p> <p>noun verb</p>	<p>8</p> <p>destroy</p> <p>noun verb</p>

ANSWER KEY



Nouns and Verbs

Which words are nouns and which words are verbs?
Read each word, then circle the correct answer.

<p>1</p> <p>volcano</p> <p>noun verb</p>	<p>2</p> <p>erupt</p> <p>noun verb</p>
<p>3</p> <p>burn</p> <p>noun verb</p>	<p>4</p> <p>lava</p> <p>noun verb</p>
<p>5</p> <p>rocks</p> <p>noun verb</p>	<p>6</p> <p>drip</p> <p>noun verb</p>
<p>7</p> <p>crater</p> <p>noun verb</p>	<p>8</p> <p>destroy</p> <p>noun verb</p>

Name: _____



Adjectives and Adverbs

An **adjective** is a word that describes a noun or pronoun.

An **adverb** is a word that describes verbs, adjectives, or other adverbs. Adverbs answer how, when, where, why, how often or how much. Read each word. Determine if it is an adjective or an adverb and circle the correct answer.

<p>1</p> <p>loud</p> <p>adjective adverb</p>	<p>2</p> <p>violently</p> <p>adjective adverb</p>
<p>3</p> <p>active</p> <p>adjective adverb</p>	<p>4</p> <p>extinct</p> <p>adjective adverb</p>
<p>5</p> <p>dormant</p> <p>adjective adverb</p>	<p>6</p> <p>explosively</p> <p>adjective adverb</p>
<p>7</p> <p>gently</p> <p>adjective adverb</p>	<p>8</p> <p>quickly</p> <p>adjective adverb</p>

ANSWER KEY



Adjectives and Adverbs

An **adjective** is a word that describes a noun or pronoun.

An **adverb** is a word that describes verbs, adjectives, or other adverbs. Adverbs answer how, when, where, why, how often or how much. Read each word. Determine if it is an adjective or an adverb and circle the correct answer.

<div>1</div> <div>loud</div> <div>adjective adverb</div>	<div>2</div> <div>violently</div> <div>adjective adverb</div>
<div>3</div> <div>active</div> <div>adjective adverb</div>	<div>4</div> <div>extinct</div> <div>adjective adverb</div>
<div>5</div> <div>dormant</div> <div>adjective adverb</div>	<div>6</div> <div>explosively</div> <div>adjective adverb</div>
<div>7</div> <div>gently</div> <div>adjective adverb</div>	<div>8</div> <div>quickly</div> <div>adjective adverb</div>

Name: _____



Word Scramble

Unscramble the words and write them on the lines.

1. coanovl

2. mamag

3. ractre

4. tevn

5. nocctteis

6. hleids

7. oenc

8. scurt

ANSWER KEY

Word Scramble



Unscramble the words and write them on the lines.

1. coanovl

Volcano

2. mamag

Magma

3. ractre

Crater

4. tevn

Vent

5. nocctteis

Tectonics

6. hleids

Shield

7. oenc

Cone

8. scurt

Crust

Name: _____



Word Search

C R S U R Y V A D O V G
R W E H J O E S Q Z J T
U J H T L A G Y T N T U
S W X C A J U T Q F Z S
T V A E U R W N W L C N
E N W O L F C E A I Z T
O H M S M L C V N I L X
J J J D M S A O E X I N
A M G A M R T D N D W W
T B K T X C S H I E L D
I M N A E B S P X X H T
I K B T M I D L P Q Q S

Volcano
Magma

Crater
Vent

Tectonics
Shield

Cone
Crust

Lava
Flow

Name: _____

Research



Use resources from the library or the internet to learn about volcanoes. Write an essay to share your favorite facts about volcanoes. You may use a separate sheet of paper if needed.

Name: _____

Greater Than, Equal To, Less Than



Fill in each circle with the correct sign.



greater than



equal to



less than

$12 - 6$

$3 + 3$

$4 - 3$

$5 - 3$

$6 - 2$

$4 + 1$

$2 + 2$

$7 - 2$

$6 + 3$

$5 + 3$

$5 + 7$

$7 + 5$

$8 - 4$

$8 - 3$

$1 + 1$

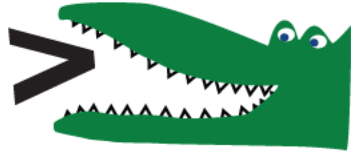
$4 - 2$

ANSWER KEY

Greater Than, Equal To, Less Than



Fill in each circle with the correct sign.



greater than



equal to



less than

$$12 - 6 \quad \bigcirc \quad 3 + 3$$

$$4 - 3 \quad \bigcirc \quad 5 - 3$$

$$6 - 2 \quad \bigcirc \quad 4 + 1$$

$$2 + 2 \quad \bigcirc \quad 7 - 2$$

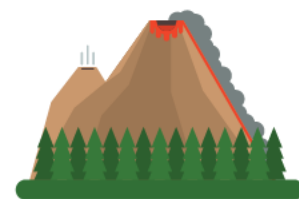
$$6 + 3 \quad \bigcirc \quad 5 + 3$$

$$5 + 7 \quad \bigcirc \quad 7 + 5$$

$$8 - 4 \quad \bigcirc \quad 8 - 3$$

$$1 + 1 \quad \bigcirc \quad 4 - 2$$

Name: _____



Hundreds Chart

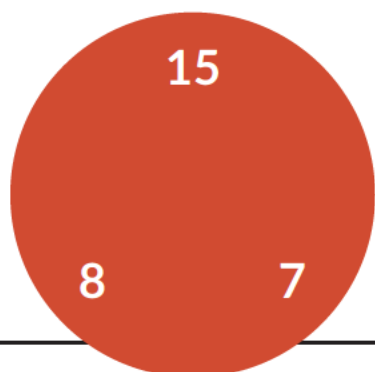
Fill in the missing numbers below.

1	2	3	4	5	6	7		9	10
11	12			15	16		18	19	20
21	22	23	24	25	26	27	28		
31	32		34		36	37	38	39	
41		43	44	45	46		48	49	50
51	52	53	54		56	57		59	60
61	62	63	64	65	66	67	68	69	
	72	73	74	75	76		78	79	80
81	82	83	84		86	87	88	89	90
91		93	94	95	96			99	100

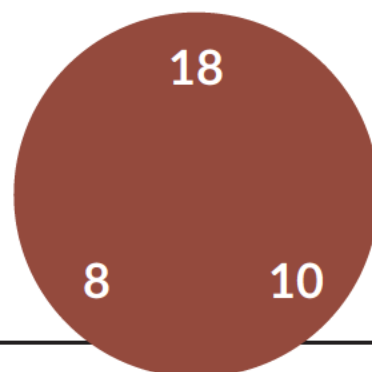
Name: _____

Addition Fact Families

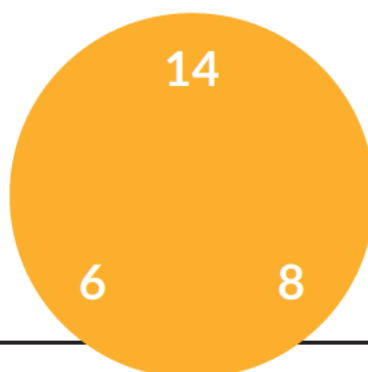
*Each circle has three numbers that make up a fact family.
Add and subtract using each fact family to fill in the blanks.*



7	+	8	=	15
8	+	7	=	15
15	-	8	=	7
15	-	7	=	8



	+		=	
	+		=	
	-		=	
	-		=	



	+		=	
	+		=	
	-		=	
	-		=	



Name: _____

Addition Word Problems (up to 20)

- 1. As they looked at the map, Devin counted seven volcanoes. Kelly spotted four more volcanoes. Together, how many volcanoes did the children find on the map?**
- 2. From the igneous rock bin, Haley picked three glassy obsidian and six rough pumice stones. How many igneous rocks did Haley pick in all?**
- 3. Before writing his volcano science fair paper, Roshan read eight short books on volcanoes. Then, he found two longer volcano books with very interesting experiments. How many books did Roshan use to write his paper?**
- 4. Pedro has visited three volcanoes in California, five in Oregon, and five in Washington. How many volcanoes has Pedro visited in the three states?**

ANSWER KEY

Addition Word Problems (up to 20)

1. As they looked at the map, Devin counted seven volcanoes. Kelly spotted four more volcanoes. Together, how many volcanoes did the children find on the map?

$$7 + 4 = 11 \text{ volcanoes}$$

2. From the igneous rock bin, Haley picked three glassy obsidian and six rough pumice stones. How many igneous rocks did Haley pick in all?

$$3 + 6 = 9 \text{ rocks}$$

3. Before writing his volcano science fair paper, Roshan read eight short books on volcanoes. Then, he found two longer volcano books with very interesting experiments. How many books did Roshan use to write his paper?

$$8 + 2 = 10 \text{ books}$$

4. Pedro has visited three volcanoes in California, five in Oregon, and five in Washington. How many volcanoes has Pedro visited in the three states?

$$3 + 5 + 5 = 13 \text{ volcanoes}$$

Name: _____

Addition Word Problems (> 20)

- 1. Dr. Dora excavated 47 obsidian tools from the first archeological site. Then, she found 51 more obsidian tools at the second site. How many obsidian tools did she find all together?**
- 2. At the Old Faithful tour stop, the first visitor bus brought 77 people. The second bus brought 67 people. How many people got off the buses at the Old Faithful stop?**
- 3. On Tuesday, 37 families had to evacuate their homes because of lava flowing from the volcano. On Wednesday, 24 more families had to evacuate. How many families had to evacuate altogether?**
- 4. Lava oozed from the volcano for 28 days in May and an additional 29 days in June. On how many days did lava ooze from the volcano during these two months?**

ANSWER KEY

Addition Word Problems (> 20)

1. Dr. Dora excavated 47 obsidian tools from the first archeological site. Then, she found 51 more obsidian tools at the second site. How many obsidian tools did she find all together?

$$47 + 51 = 98 \text{ tools}$$

2. At the Old Faithful tour stop, the first visitor bus brought 77 people. The second bus brought 67 people. How many people got off the buses at the Old Faithful stop?

$$77 + 67 = 144 \text{ people}$$

3. On Tuesday, 37 families had to evacuate their homes because of lava flowing from the volcano. On Wednesday, 24 more families had to evacuate. How many families had to evacuate altogether?

$$37 + 24 = 61 \text{ families}$$

4. Lava oozed from the volcano for 28 days in May and an additional 29 days in June. On how many days did lava ooze from the volcano during these two months?

$$28 + 29 = 57 \text{ days}$$

Name: _____

Subtraction Word Problems

1. There were 12 rock samples in the box. Delores found that five were igneous rocks. How many of the samples were not igneous rocks?
2. Margarite has identified 18 volcanoes that she wants to visit. She has already visited six of them. How many of the volcanoes on her list does she have left to visit?
3. Hawaii's Mauna Loa Volcano is 17 kilometers high when measured from its base below the ocean all the way to the top. If only 4 kilometers of the volcano are above sea level, how much of the volcano is below sea level?
4. Cory and Carl had one big bag of granite, weighing eleven pounds. They decided to put four pounds of the rocks into a different bag. How many pounds were now in the first bag?

ANSWER KEY

Subtraction Word Problems

1. There were 12 rock samples in the box. Delores found that five were igneous rocks. How many of the samples were not igneous rocks?

$12 - 5 = 7$ rocks were not igneous

2. Margarite has identified 18 volcanoes that she wants to visit. She has already visited six of them. How many of the volcanoes on her list does she have left to visit?

$18 - 6 = 12$ volcanoes

3. Hawaii's Mauna Loa Volcano is 17 kilometers high when measured from its base below the ocean all the way to the top. If only 4 kilometers of the volcano are above sea level, how much of the volcano is below sea level?

$17 - 4 = 13$ kilometers

4. Cory and Carl had one big bag of granite, weighing eleven pounds. They decided to put four pounds of the rocks into a different bag. How many pounds were now in the first bag?

$11 - 4 = 7$ pounds

Name: _____

Subtraction Word Problems

1. There were 385 people at the campground near Mt. Lassen Volcanic National Park. 276 went to see the volcano while the rest stayed behind. How many stayed at the campground?
2. Hawaiian volcano, Pu'u'o'o, erupted continuously from 1983 to 2018. For how many years did Pu'u'o'o erupt?
3. Mount St. Helens's most recent eruption was in 1980. It continued to be active until 2008. For how many years was Mount St. Helens an active volcano?
4. Mount St. Helens was 9,677 feet high before the eruption. After the eruption it was only 8,365 feet high. How many feet did it lose during the eruption?

ANSWER KEY

Subtraction Word Problems

1. There were 385 people at the campground near Mt. Lassen Volcanic National Park. 276 went to see the volcano while the rest stayed behind. How many stayed at the campground?

$$385 - 276 = 109 \text{ people}$$

2. Hawaiian volcano, Pu'u'o'o, erupted continuously from 1983 to 2018. For how many years did Pu'u'o'o erupt?

$$2018 - 1983 = 35 \text{ years}$$

3. Mount St. Helens's most recent eruption was in 1980. It continued to be active until 2008. For how many years was Mount St. Helens an active volcano?

$$2008 - 1980 = 28$$

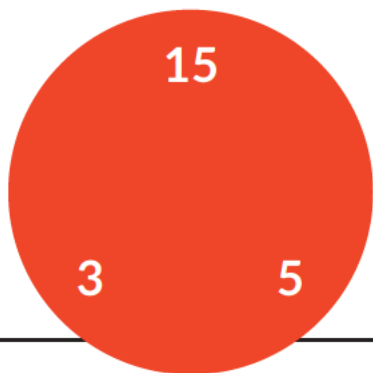
4. Mount St. Helens was 9,677 feet high before the eruption. After the eruption it was only 8,365 feet high. How many feet did it lose during the eruption?

$$9,677 - 8,365 = 1,312 \text{ feet}$$

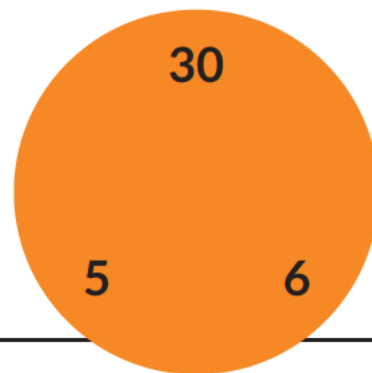
Name: _____

Multiplication Fact Families

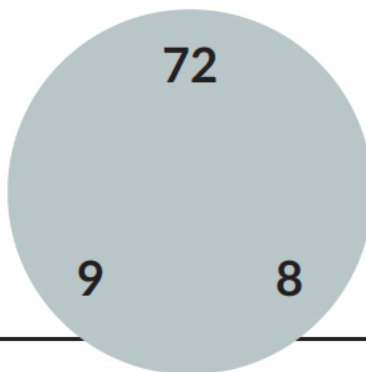
*Each circle has three numbers that make up a fact family.
Multiply and divide using each fact family to fill in the blanks.*



3	×	5	=	15
5	×	3	=	15
15	÷	3	=	5
15	÷	5	=	3



	×		=	
	×		=	
	÷		=	
	÷		=	



	×		=	
	×		=	
	÷		=	
	÷		=	



Name: _____

Single Digit Multiplication



$$\begin{array}{r} 5 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ \times 8 \\ \hline \end{array}$$

ANSWER KEY

Single Digit Multiplication



$$\begin{array}{r} 5 \\ \times 5 \\ \hline 25 \end{array}$$

$$\begin{array}{r} 4 \\ \times 2 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 7 \\ \times 8 \\ \hline 56 \end{array}$$

$$\begin{array}{r} 5 \\ \times 6 \\ \hline 30 \end{array}$$

$$\begin{array}{r} 9 \\ \times 6 \\ \hline 30 \end{array}$$

$$\begin{array}{r} 9 \\ \times 8 \\ \hline 72 \end{array}$$

Name: _____

Double Digit Multiplication



$$\begin{array}{r} 22 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 49 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 57 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 32 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 87 \\ \times 26 \\ \hline \end{array}$$

$$\begin{array}{r} 43 \\ \times 96 \\ \hline \end{array}$$

ANSWER KEY

Double Digit Multiplication



$$\begin{array}{r} 22 \\ \times 7 \\ \hline 154 \end{array}$$

$$\begin{array}{r} 49 \\ \times 6 \\ \hline 294 \end{array}$$

$$\begin{array}{r} 57 \\ \times 8 \\ \hline 456 \end{array}$$

$$\begin{array}{r} 32 \\ \times 5 \\ \hline 160 \end{array}$$

$$\begin{array}{r} 87 \\ \times 26 \\ \hline 2,262 \end{array}$$

$$\begin{array}{r} 43 \\ \times 96 \\ \hline 4,128 \end{array}$$

Name: _____

Multiplication Word Problems

1. Each child chose four rock samples. If there were seven children, how many rock samples were chosen in all?
2. Each 3-pound bag of igneous rocks was to be placed in the carrying crate. If six bags were put in the crate, how many pounds of rocks were in the crate?
3. The family planned to visit two volcanoes per year for the next five years. How many volcanoes would the family end up visiting?
4. Decorative pumice rock was \$8.00 per pound. To line the garden bed, the Wang family will need seven pounds of rock. How much will it cost to line the garden bed with pumice rock?

ANSWER KEY

Multiplication Word Problems

1. Each child chose four rock samples. If there were seven children, how many rock samples were chosen in all?

$$4 \times 7 = 28$$

2. Each 3-pound bag of igneous rocks was to be placed in the carrying crate. If six bags were put in the crate, how many pounds of rocks were in the crate?

$$3 \times 6 = 18$$

3. The family planned to visit two volcanoes per year for the next five years. How many volcanoes would the family end up visiting?

$$2 \times 5 = 10$$

4. Decorative pumice rock was \$8.00 per pound. To line the garden bed, the Wang family will need seven pounds of rock. How much will it cost to line the garden bed with pumice rock?

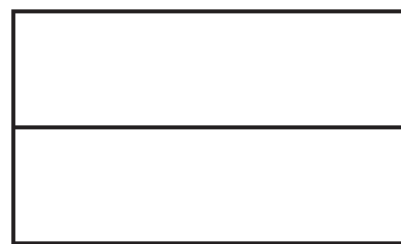
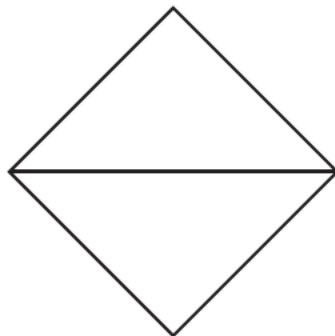
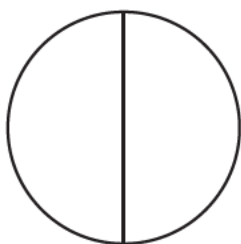
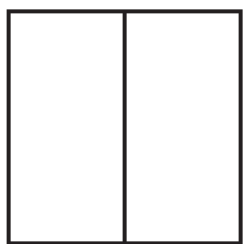
$$\$8 \times 7 = \$56$$

Name: _____

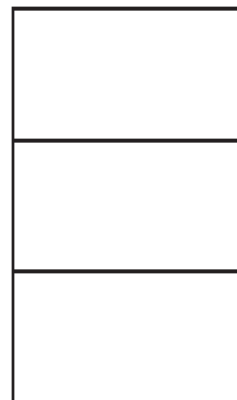
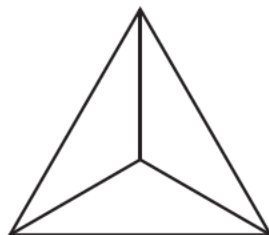
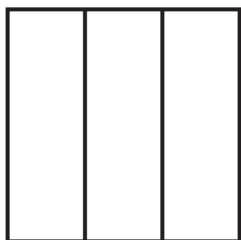


Fraction Coloring

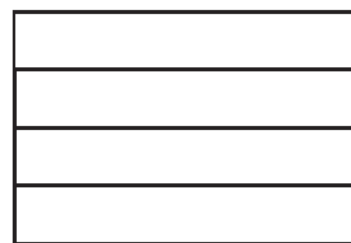
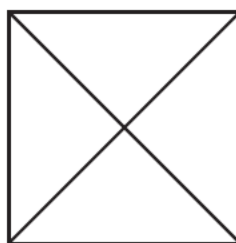
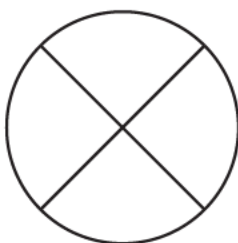
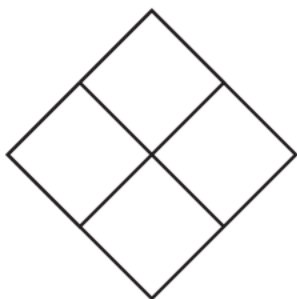
Color $\frac{1}{2}$ of each shape red.



Color $\frac{1}{3}$ of each shape blue.



Color $\frac{1}{4}$ of each shape green.

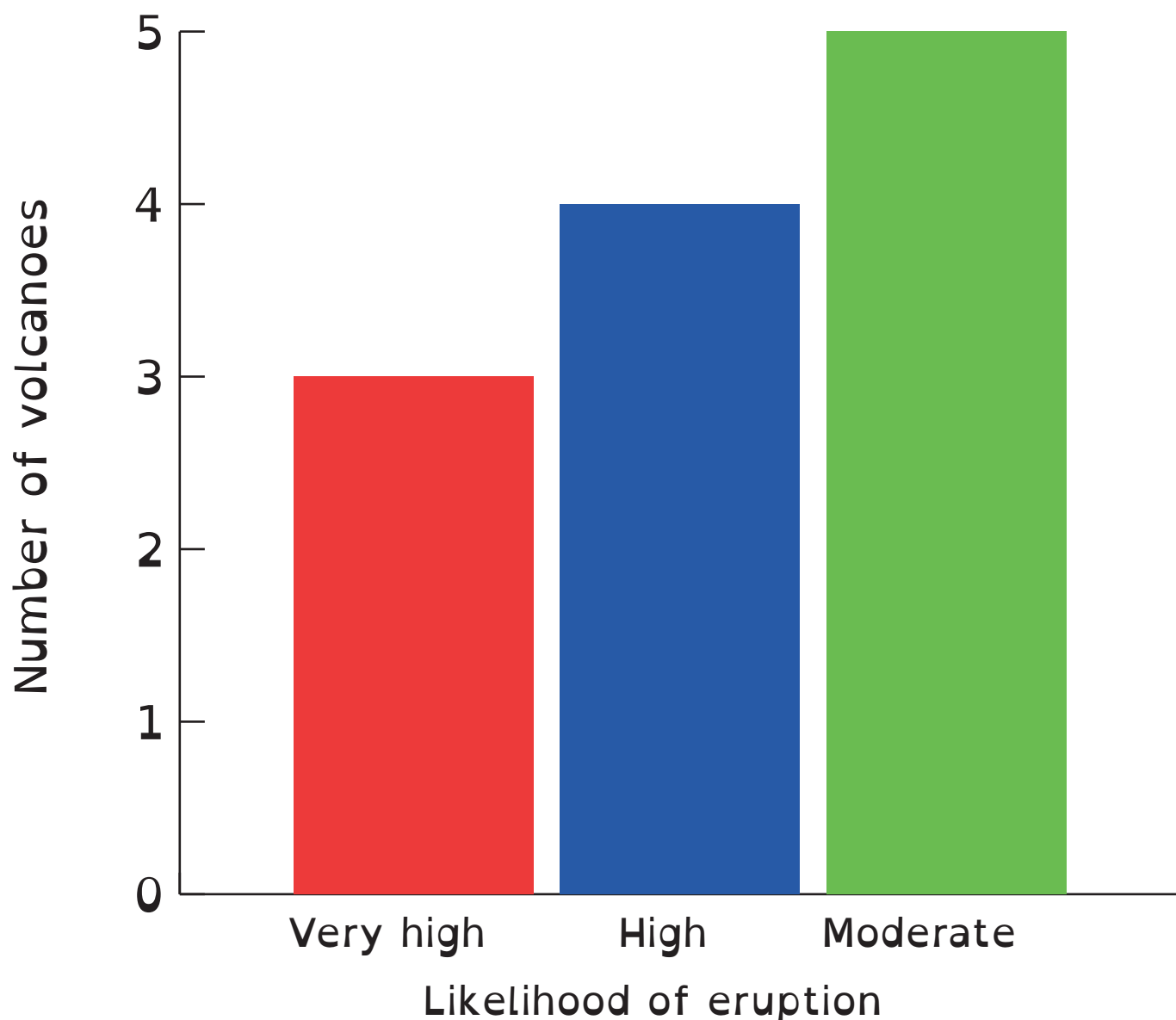


Name: _____

Reading Bar Graphs (pg. 1 of 2)

Use the bar graph below to answer the questions on the next page.

Young Volcanoes in California and Nevada



Name: _____

Reading Bar Graphs (pg. 2 of 2)

1. How many of the young volcanoes in California and Nevada have a very high likelihood of eruption?
2. Are there more volcanoes with a moderate rating or a high rating?
3. How many total young volcanoes exist in California and Nevada?

ANSWER KEY

Reading Bar Graphs

1. How many of the young volcanoes in California and Nevada have a very high likelihood of eruption?

3

2. Are there more volcanoes with a moderate rating or a high rating?

moderate

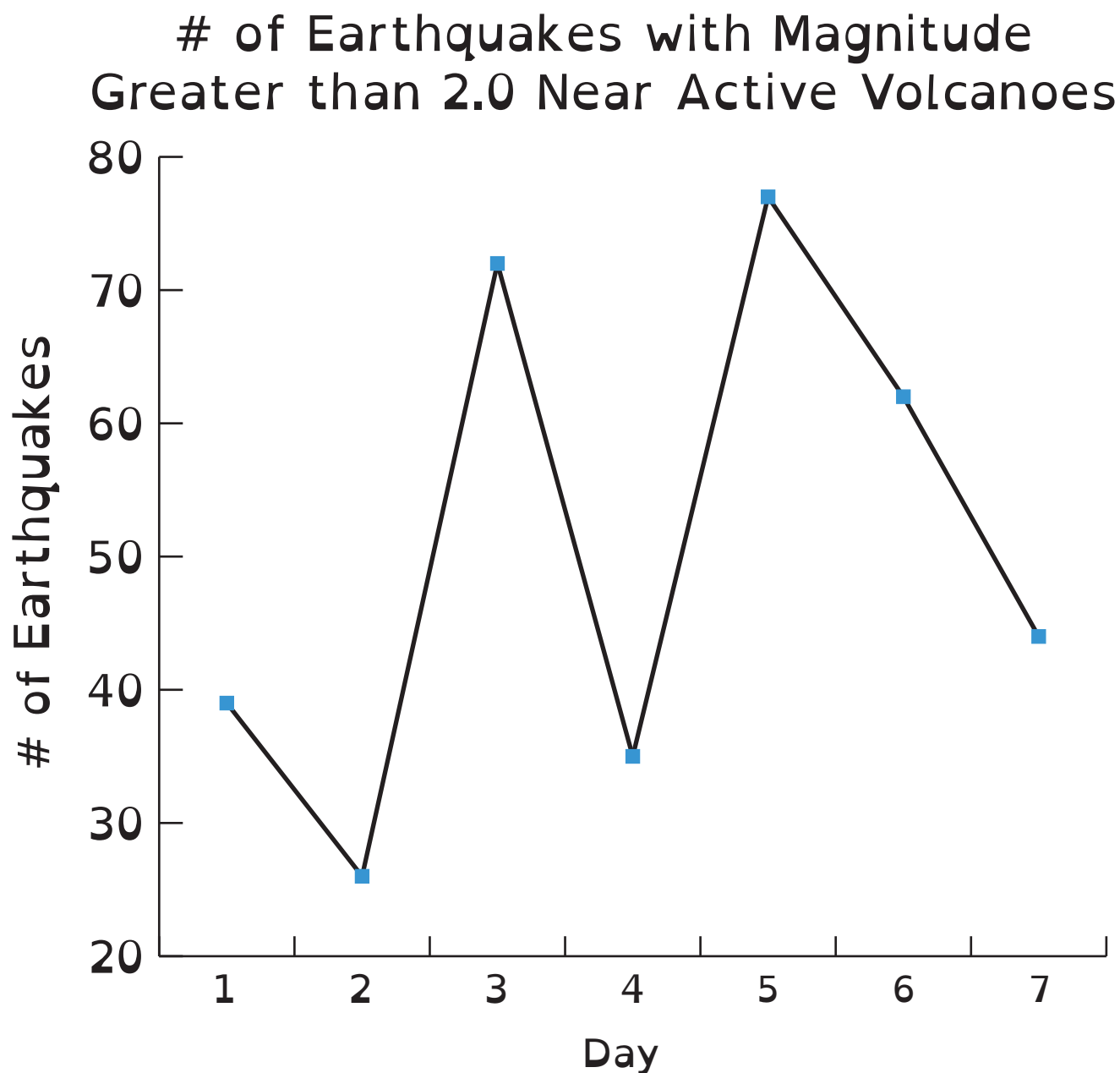
3. How many total young volcanoes exist in California and Nevada?

$3 + 4 + 5 = 12$ young volcanoes

Name: _____

Reading Line Graphs (pg. 1 of 2)

Use the line graph below to answer the questions on the next page.



Name: _____

Reading Line Graphs (pg. 2 of 2)

1. On which day was there the greatest number of earthquakes with magnitude greater than 2.0?
2. On which day was there the least number of earthquakes with magnitude greater than 2.0?
3. On how many days were there at least 50 earthquakes with magnitude greater than 2.0?
4. About how many total earthquakes with magnitude greater than 2.0 occurred during the week-long observation period?

ANSWER KEY

Reading Line Graphs

1. On which day was there the greatest number of earthquakes with magnitude greater than 2.0?

Day 5

2. On which day was there the least number of earthquakes with magnitude greater than 2.0?

Day 2

3. On how many days were there at least 50 earthquakes with magnitude greater than 2.0?

3 (Days 3, 5, & 6)

4. About how many total earthquakes with magnitude greater than 2.0 occurred during the week-long observation period?

355, but answers will vary as exact numbers are not provided in the graph so children will have to estimate the answer