Happy Printables

Summer Pack 2021

Grade 5

HappyNumbers.com

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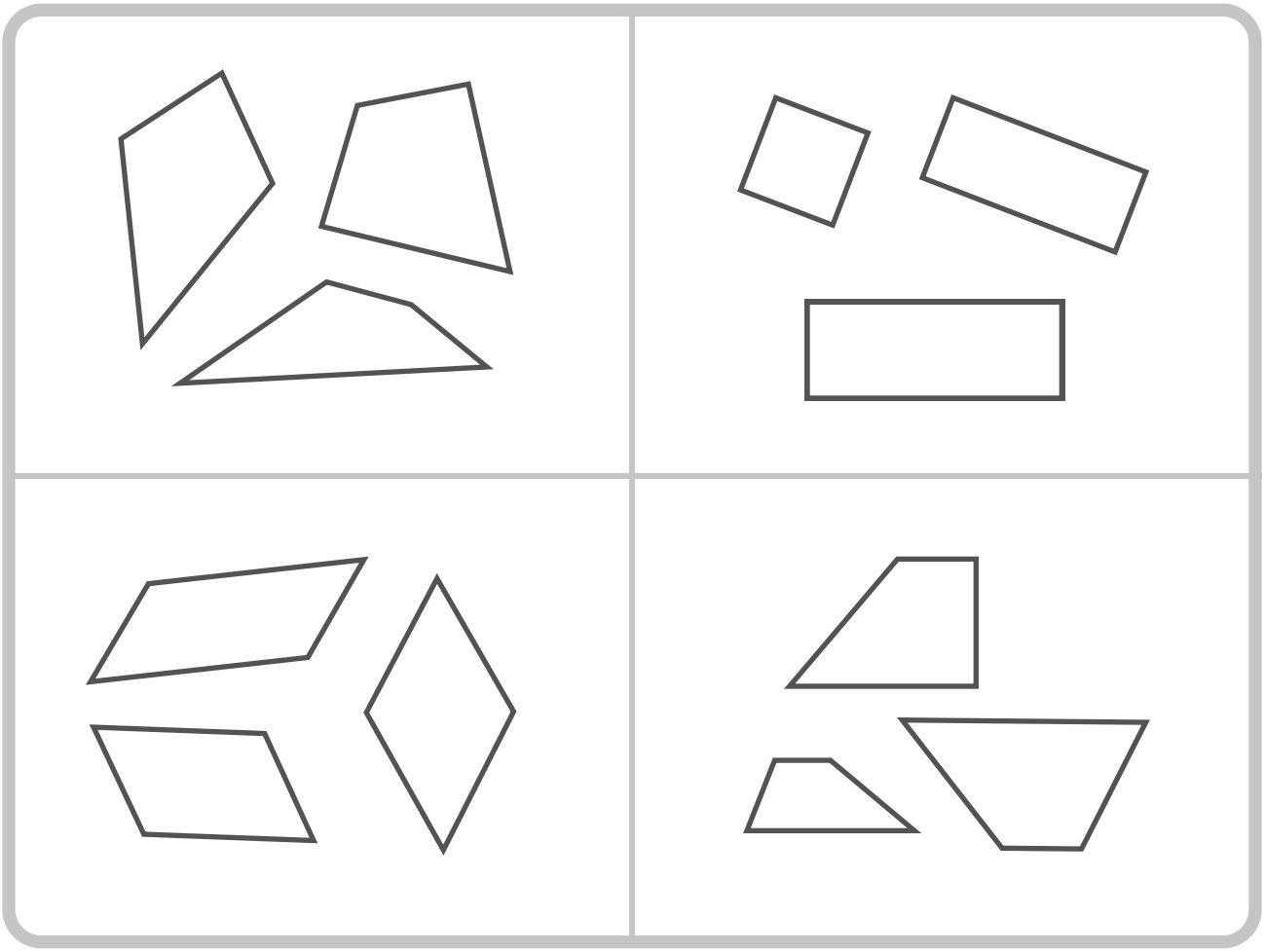
Name _____

Sorting Shapes

Eva sorted the shapes below into 4 groups.
What rules did Eva follow?



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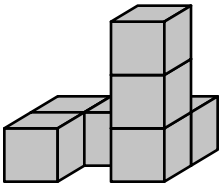
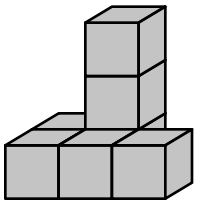
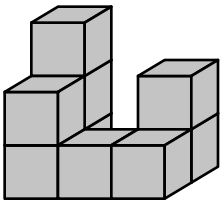
Cubic Castle

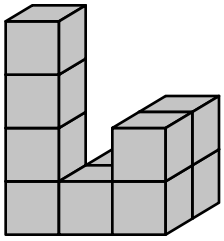
Complete the diagram representing the figure from the top.

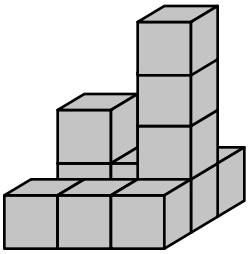


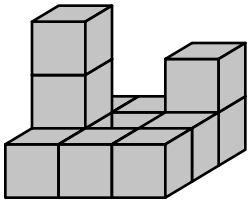
1	1	1
1	0	3

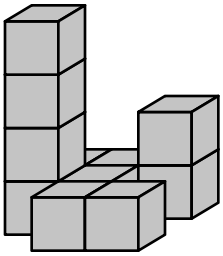


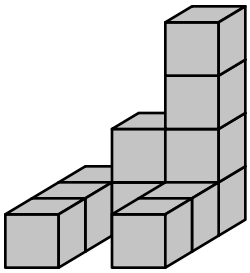


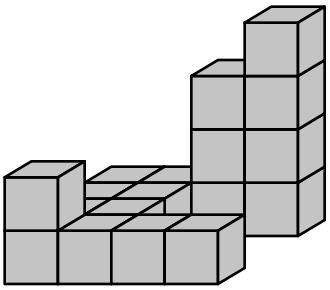


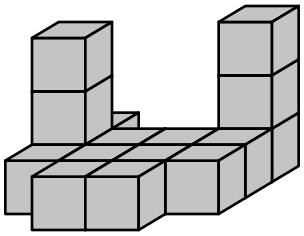


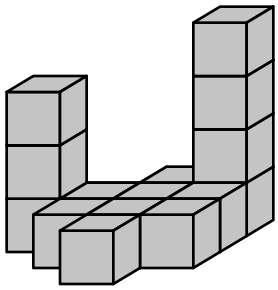










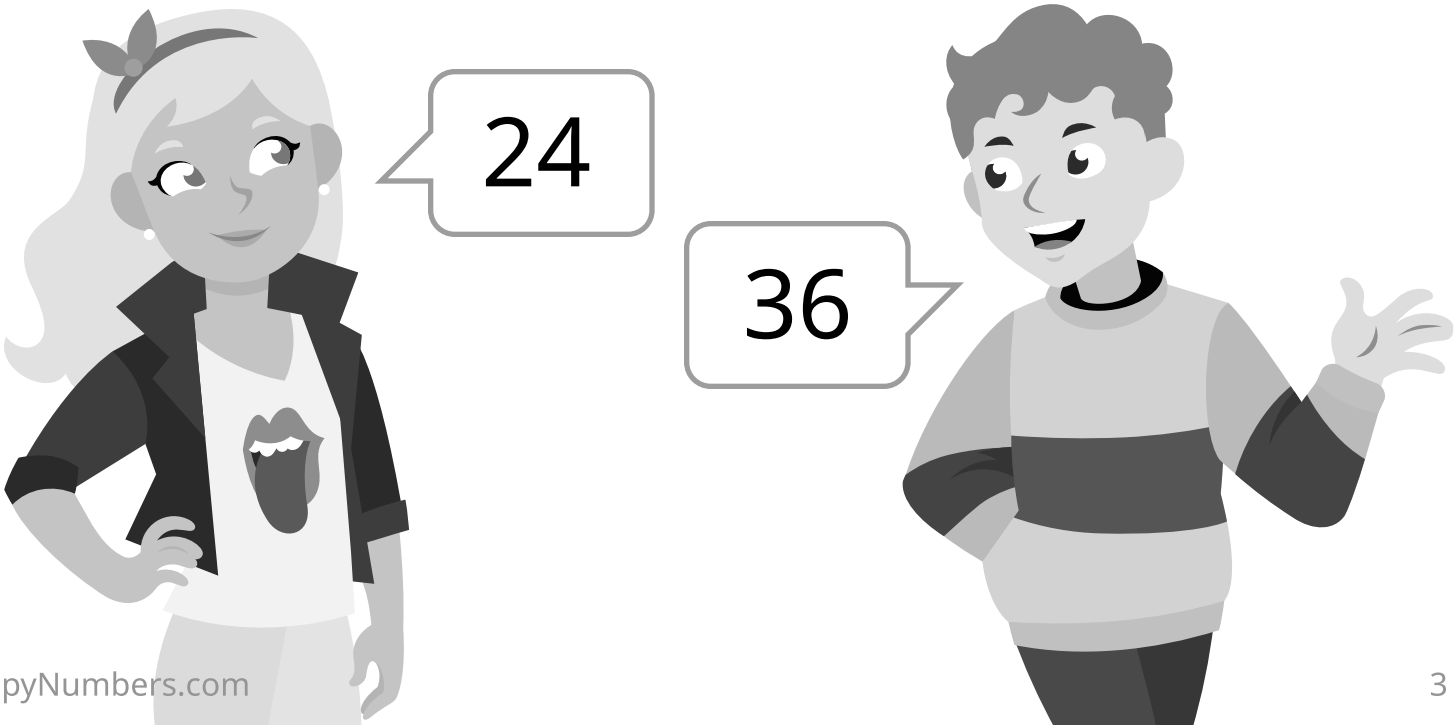


Name _____

Who Is Correct?

Mike and Lola evaluated the same expression but got different answers. Find out who is correct and explain your decision.

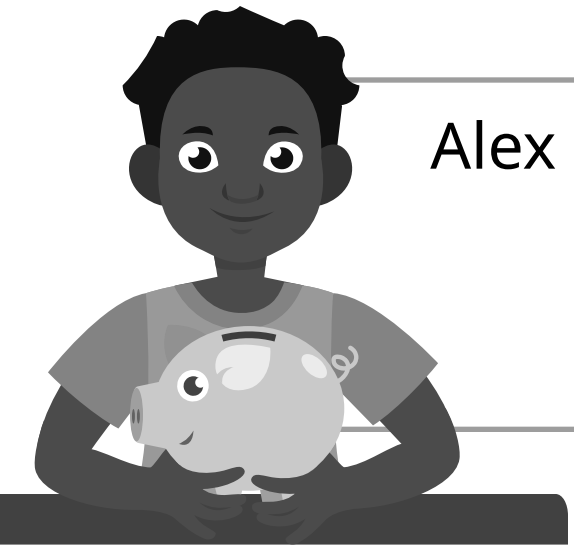
$$45 - (15 + 6) = \_\_\_\_$$



Name _____

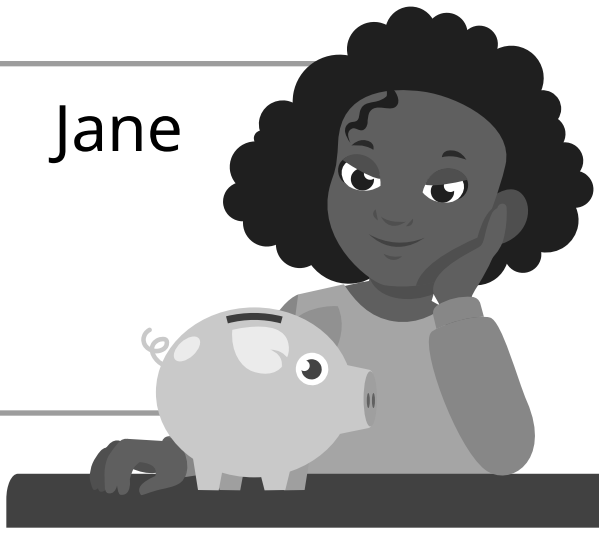
Who Saved More?

1) Jane saved a quarter for each day of the 2020 year. Alex saved a nickel each day.
Who collected more money? How much more?
2) If Alex had saved 12 pennies more each day and Jane had saved one dime less each day, who collected more money? How much more?



Alex

Jane



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Favorite Sport

Four friends like to play four different sports.
Use the information below to find out which sport each of them prefers. Write your answer on the lines below.

 Alex	 Drew	 Ann	 Billie
Tennis	Tennis	Tennis	Tennis
Football	Football	Football	Football
Hockey	Hockey	Hockey	Hockey
~~Volleyball~~	Volleyball	Volleyball	Volleyball

- Alex and the volleyball player are older than Drew
- Ann and the football player go to the same school
- The hockey player is the youngest of the friends
- Sometimes Billie and the tennis player help Drew and the hockey player with science projects

Name ____________________

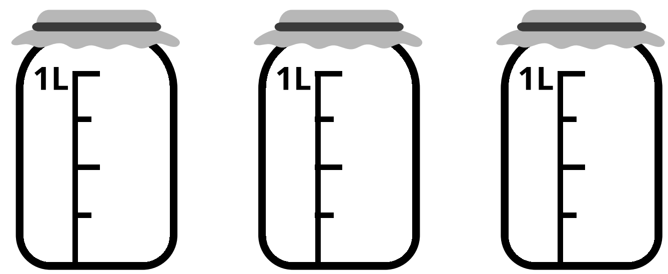
Liquid Level

Transfer the total amount of liquid in the 3 bottles equally.
Find the amount of liquid each bottle contains after transferring.

In total: 3/2 L

In each bottle after transferring: 1/2 L

In total: _______



In each bottle after transferring: ________

In total: _______

In each bottle after transferring: ________

In total: _______

In each bottle after transferring: ________

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Saturn's Moons

Convert the mixed fractions to improper fractions.
Use your answer to solve the riddles.

1. $4\frac{1}{2} = \frac{9}{2}$
2. $6\frac{3}{5} = \frac{\square}{5}$
3. $2\frac{7}{8} = \frac{\square}{8}$
4. $7\frac{1}{3} = \frac{\square}{3}$
5. $4\frac{4}{5} = \frac{\square}{5}$
6. $5\frac{4}{7} = \frac{\square}{7}$
7. $4\frac{1}{6} = \frac{\square}{6}$
8. $11\frac{5}{7} = \frac{\square}{7}$

23	39	9	33	22	24	25
P	U	I	A	E	T	S

The name of the third-largest natural satellite of Saturn is I _ _ _ _ _ _ _
(1 2 3 4 5 6 7)

Saturn has ____ moons
(8)

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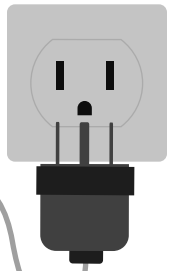
Electrical Circuit

Compare the two numbers using >, =, or < to complete the electrical circuit.



13.7 > 8.14

1.71

1.17

4.17

0.17

6.05

6.5

0.25

2.05

76.3

7.63

3.25

32.5

10.01

1.10

88.88

888.8

56.32

32.56

0.96

0.69

3.46

3.64

12.47

124.7

10.25

10.05

24.24

24.44

46.46

46.64

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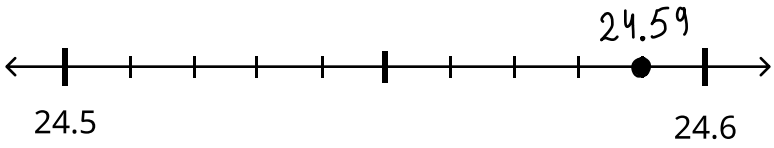
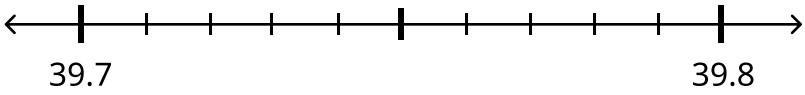
Up or Down?

Round each decimal to the nearest tenth. Use the number line to help you.

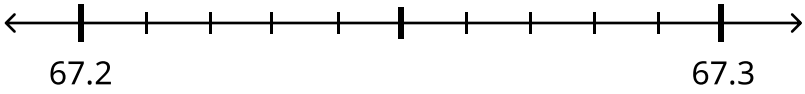
24.59 → 24.6



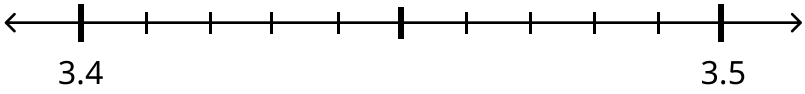
39.74 → _____



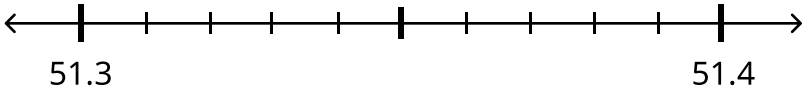
67.27 → _____



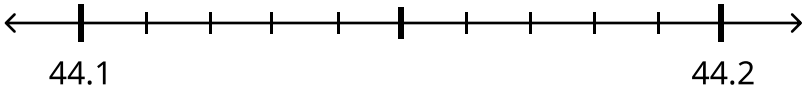
3.49 → _____



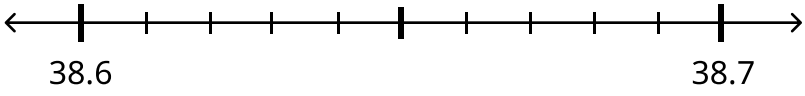
51.36 → _____



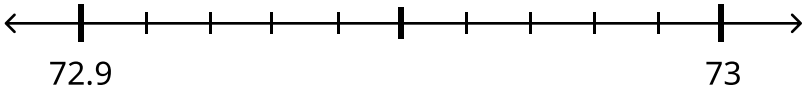
44.15 → _____



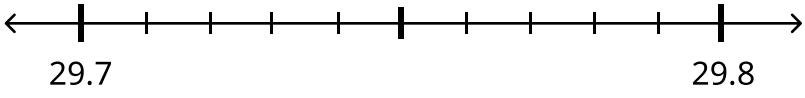
38.62 → _____



72.91 → _____



29.78 → _____



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Sudoku

The sum of every row, column, and diagonal is the same.
Fill in the blank squares and the sums.

Sum = 9

		3.6
1.8	3	

Sum = ___

3.6	2.9	3.4
		3

Sum = 1.5

		0.6
0.4	0.3	

Sum = ___

2.3		
1.8		
1.9	2.4	

Sum = 3.3

	0.7	
	1.1	
		0.8

Sum = ___

7.4	8.1	
	7.7	
		8

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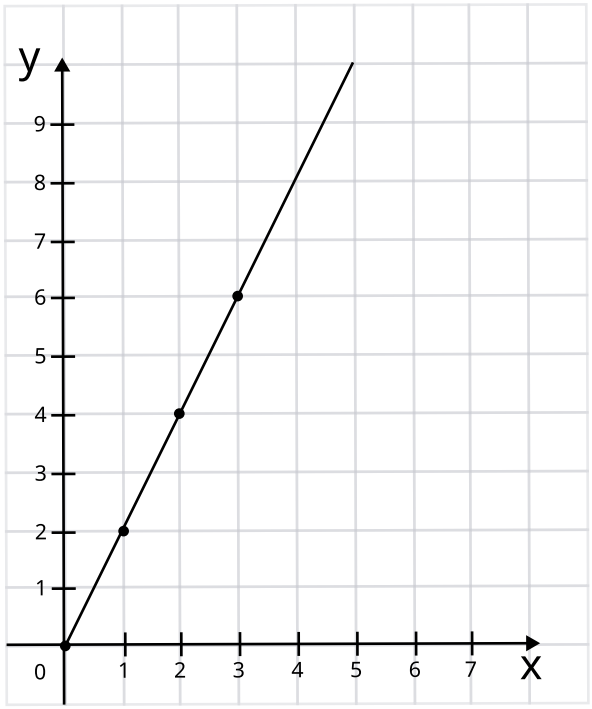
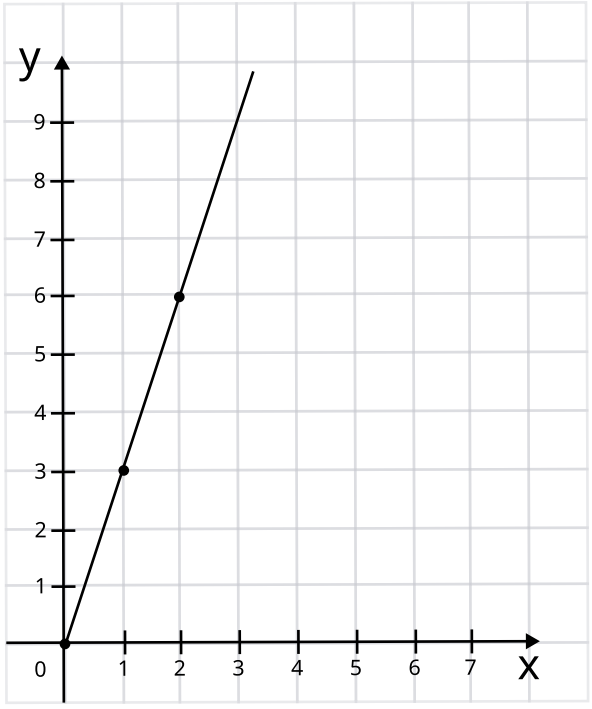
Missing Numbers

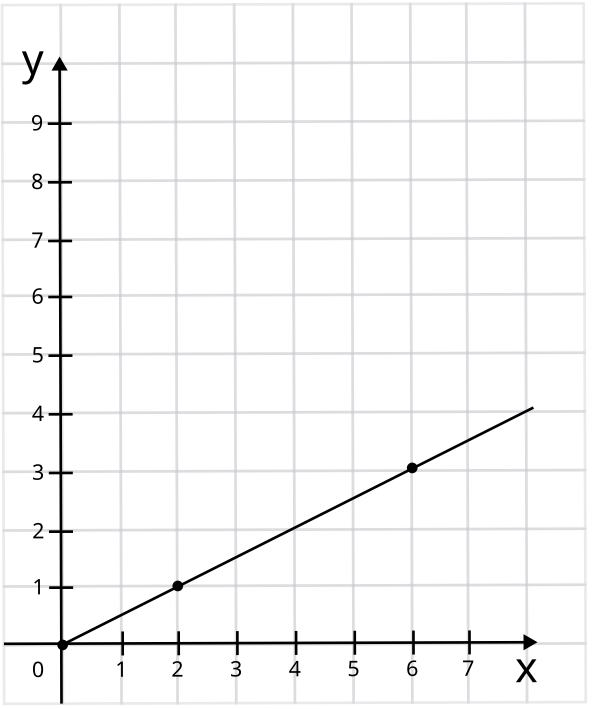
Using the graph and the table of ordered pairs, fill in the missing coordinates in the table.



x	0	1	2	3	4
y	0	2	4	6	



x	0	1	2	3
y	0	3	6	

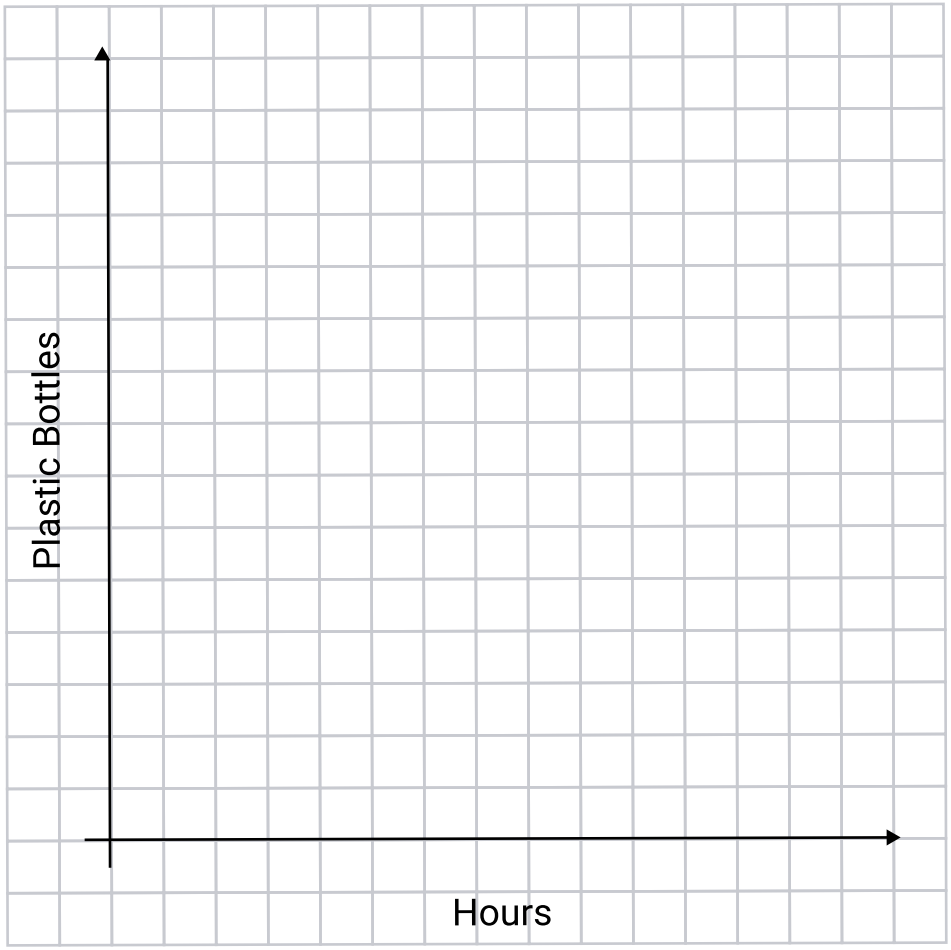


x	0	2		6	
y	0	1	2	3	

Name _____

Clean-up Campaign

Parker and Taylor organized a clean-up campaign. The chart displays how many plastic bottles they found throughout the day. Plot how many plastic bottles they found on the coordinate grid. Use different colors for Parker's and Taylor's plastic bottles.



Hours	Parker	Taylor
1	3	2
2	6	4
3	9	6
4	12	8

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Name _____

Multiplication

Solve the multiplication. To complete the last problem, multiply the first three digits of your birth year by your birth month.

$$\begin{array}{r} 416 \\ \times\ 52 \\ \hline \square\square\square \\ +\ \square\square\square\square \\ \hline \square\square\square\square \end{array}$$

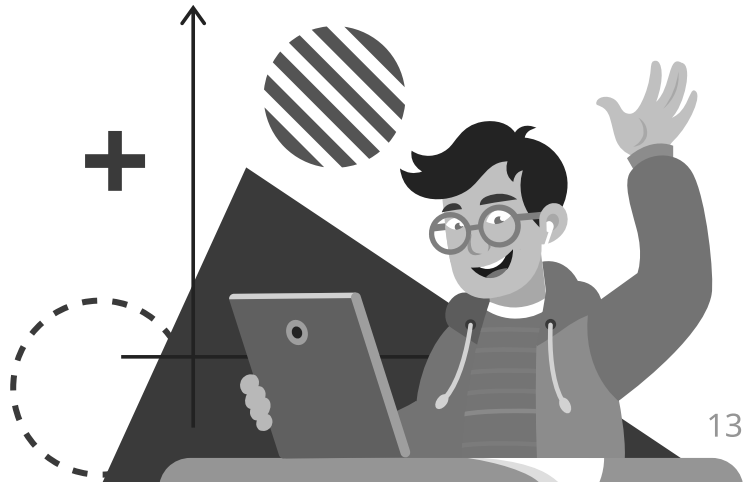
$$\begin{array}{r} 752 \\ \times\ 13 \\ \hline \square\square\square\square \\ +\ \square\square\square\square \\ \hline \square\square\square\square \end{array}$$

$$\begin{array}{r} 891 \\ \times\ 74 \\ \hline \square\square\square\square \\ +\ \square\square\square\square \\ \hline \square\square\square\square \end{array}$$

$$\begin{array}{r} 234 \\ \times\ 65 \\ \hline \square\square\square\square \\ +\ \square\square\square\square \\ \hline \square\square\square\square \end{array}$$

$$\begin{array}{r} 642 \\ \times\ 15 \\ \hline \square\square\square\square \\ +\ \square\square\square\square \\ \hline \square\square\square\square \end{array}$$

$$\begin{array}{r} \square\square\square \\ \times\ \square\square \\ \hline \square\square\square\square \\ +\ \square\square\square\square \\ \hline \square\square\square\square \end{array}$$



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Name _____

Fixing Errors

Rachel made some mistakes on long division calculations. Correct the mistakes. From the correct remainders, finish the fact about Elon Musk's satellites.

$$\begin{array}{r} 22\ R4 \not{4}\ 2 \\ 9\overline{)200} \\ -18 \\ \hline 20 \\ -16\not{0}\ 8 \\ \hline \not{4}\ 2 \end{array}$$

$$\begin{array}{r} 37\ R4 \\ 5\overline{)159} \\ -12 \\ \hline 39 \\ -35 \\ \hline 4 \end{array}$$

4

$$\begin{array}{r} 45\ R0 \\ 4\overline{)183} \\ -16 \\ \hline 20 \\ -20 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 51\ R2 \\ 72\overline{)3672} \\ -360 \\ \hline 74 \\ -72 \\ \hline 2 \end{array}$$

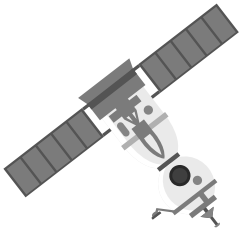
$$\begin{array}{r} 24\ R3 \\ 53\overline{)1272} \\ -106 \\ \hline 212 \\ -\ 209 \\ \hline 3 \end{array}$$

3

$$\begin{array}{r} 92\ R3 \\ 59\overline{)5433} \\ -531 \\ \hline 123 \\ -120 \\ \hline 3 \end{array}$$

2

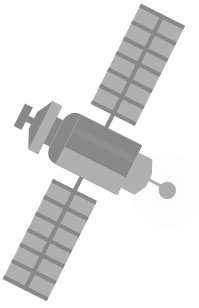
$$\begin{array}{r} 42\ R31 \\ 46\overline{)1983} \\ -186 \\ \hline 123 \\ -92 \\ \hline 31 \end{array}$$



1

$$\begin{array}{r} 96\ R5 \\ 34\overline{)3265} \\ -316 \\ \hline 209 \\ -204 \\ \hline 5 \end{array}$$

$$\begin{array}{r} 28\ R1 \\ 47\overline{)1363} \\ -95 \\ \hline 423 \\ -422 \\ \hline 1 \end{array}$$



Elon Musk launched __ __ __ __ satellites

1 2 3 4

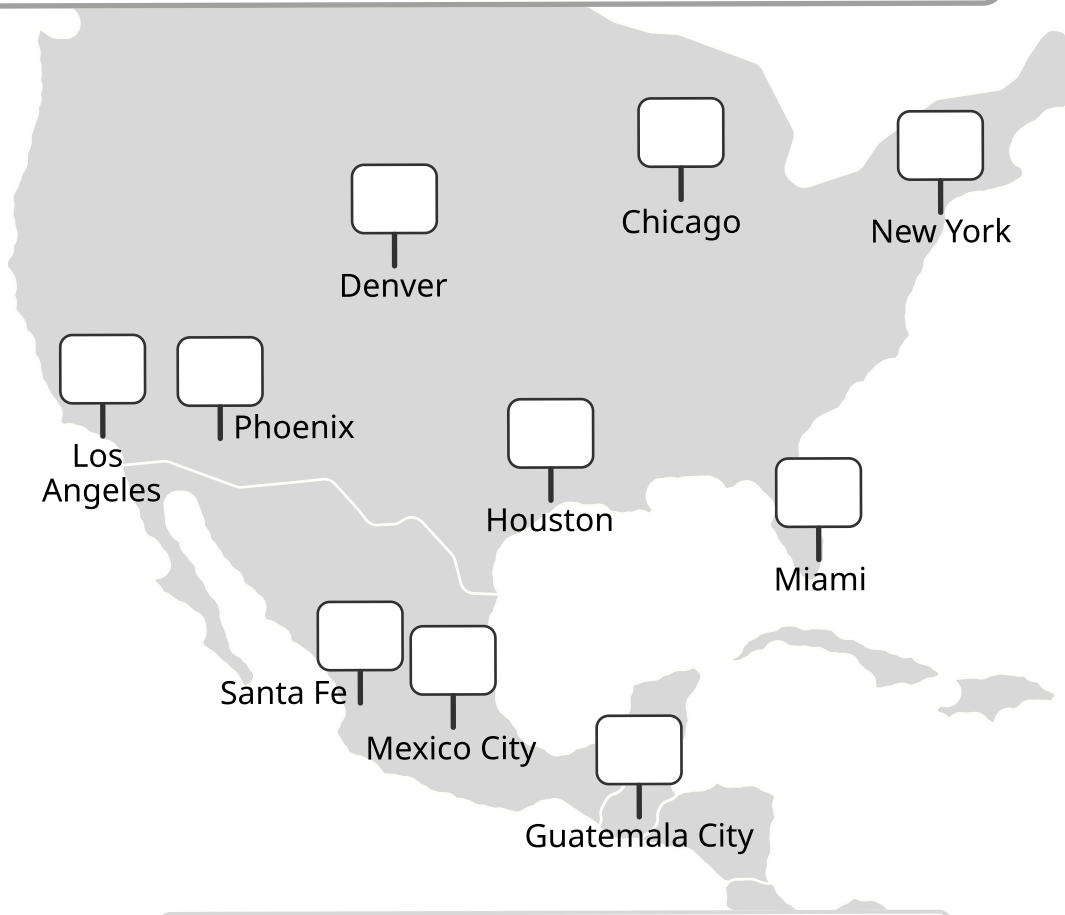
Happy Printables

Name _____

Pollution Map

Solve the equations to find the average Air Quality Index for 2021 in different cities.

8 × 9 ÷ 2 + 6 = ___	Houston
21 + (2 × 8 – 3) = ___	Denver
11 × 9 – 105 ÷ 35 – 14 = ___	Mexico City
12 + 7 × (2 + 6) = ___	Guatemala City
38 + (3 × 6 – 12) = ___	Chicago
7 × (12 – 6) ÷ 3 + 18 = ___	Phoenix
(106 + 11) – 24 ÷ 3 = ___	Santa Fe
(4 + 5) × (7 – 2) + 2 = ___	Los Angeles
33 – (9 – 6 ÷ 3) – 5 = ___	Miami
[4 × (9 + 14) – 18] ÷ 2 = ___	New York



0 – 50	Good
51 – 100	Moderate
101 – 150	Unhealthy for sensitive people

 Name _____

How Old Are Cats in Human Years?

Convert cat ages into human ages. Write the answer as a mixed number.

1 cat year = 4 human years

1. 2 cat years = _____ human years
2. 6 cat years = _____ human years
3. $\frac{5}{12}$ cat years = _____ human years
4. $\frac{7}{12}$ cat years = _____ human years
5. $\frac{11}{12}$ cat years = _____ human years
6. $1\frac{1}{2}$ cat years = _____ human years
7. $3\frac{5}{6}$ cat years = _____ human years

How Old Are Human in Cats Years?

Convert human ages into cat ages. Write the answer as a mixed number.

1 human year = $\frac{1}{4}$ cat year

1. How old are you? _____ human years = _____ cat years
2. How old is your relative? _____ human years = _____ cat years
3. How old is Ed Sheeran? _____ human years = _____ cat years
4. How old is Gwen Stefani? _____ human years = _____ cat years
5. How old is Billie Eilish? _____ human years = _____ cat years

Name _____

Who Ate Our Pizza?

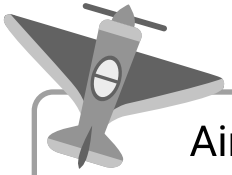
While we had fun playing lasertag, somebody ate half of our pizza! 4 friends want to share what's left. What fraction of the pizza will each friend get? Cut the pizza in the picture.

Who do you think ate the half of the pizza?

Name _____

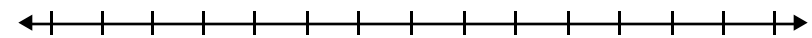
Longest Flight – Page 1

1) Make 5 paper airplanes and give them names.
2) Send your paper airplane flying and measure the distance traveled in steps. Write it down in the table.
3) Convert the length of steps to inches and record it in the table.
4) Record the data on the line plot



My step length =____inches

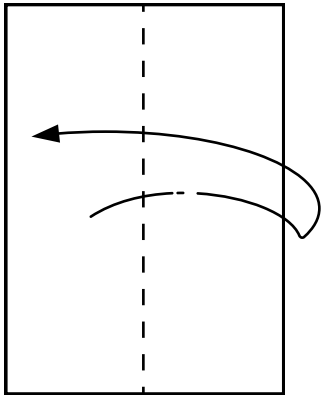
	Airplane name	Steps	Inches
1	Fluffy Eagle	5	
2			
3			
4			
5			
6			

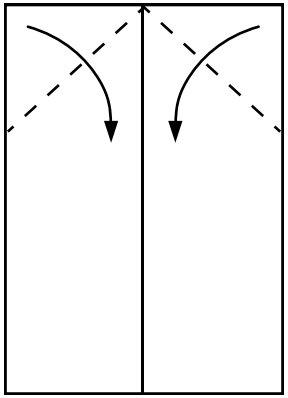


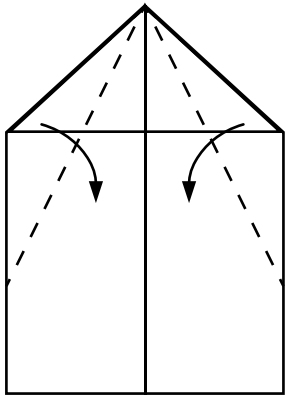
Name _____

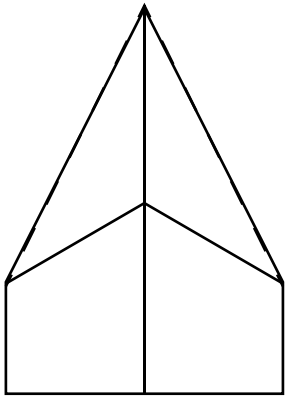
Longest Flight – Page 2

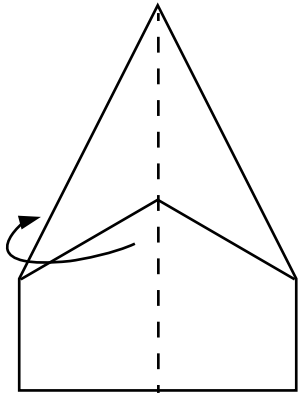
How to make a paper airplane

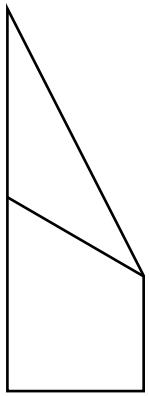
1. 

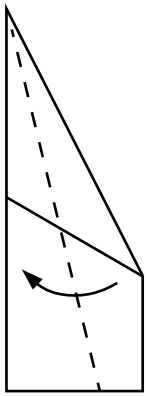
2. 

3. 

4. 

5. 

6. 

7. 

8.