Name: _____

Complete each pattern. Write what the rule is.

11.5	23	34.5
46	57.5	
80.5		103.5
115		138

Complete each pattern. Write what the rule is.

211, _____, _____, 153, 135, 119, 103, 89,

75, 63, 51, 41, 31, 23, 15

256, 234, 212, 192, 172, 154, 136, 120, 104,

90, 76, 64, _____, 42, _____, _____, 16

Name: _____

In 2005, Hailu Negussie of Ethiopia won the Men's Open with a time of 2:11:45. Catherine Ndereba of Kenya won the Women's Open with a time of 2:25:13. How much faster was Negussie's time?

Robert spent his weekend looking for treasure in the park. He found 7 quarters, 16 dimes, 13 nickels, 20 pennies, and an old toy car. How much money did Robert find?

The students at Annandale Middle School made a banner with the words "Let It Go Day - June 23" on it. The banner was 3.4 times as long as it was wide. If the banner was 3 feet wide, how long was it?

Name: _____

Jason plays in the backfield of the Big Town football team. Last week he ran four plays from the halfback position. He made "gains" measured in yards of 2, 1, -4, and 5. What were his average yards per gain? Round your answer to the nearest tenth of a yard.

Mr. and Mrs. Blair are holding a Robert Burns Supper to help raise money for kilts for the bagpipers in the school band. Tickets are $12 each, and 80% of the ticket price will be used for the kilts. There are 5 pipers in the band, and their kilts cost $432.91 each. How many tickets will have to be sold to raise the needed money?

April is mapping out an imaginary trip from point (-10, 7) to (4, 7). She spent 5 days there. Then she went to point (4, 3). If 1 unit = 85 miles, how many total miles did she travel in all?

Jen is really into science. She invented a robotic bug that burps. Her brother loves it, so she wanted to burp her brother today. She checked her phone, and her brother is currently 2.4 miles away. After she set the coordinates on the phone the robotic bug left. She got a burp confirmation 170.4 seconds later when it reached her brother. How fast did this burping bee travel in miles per hour?

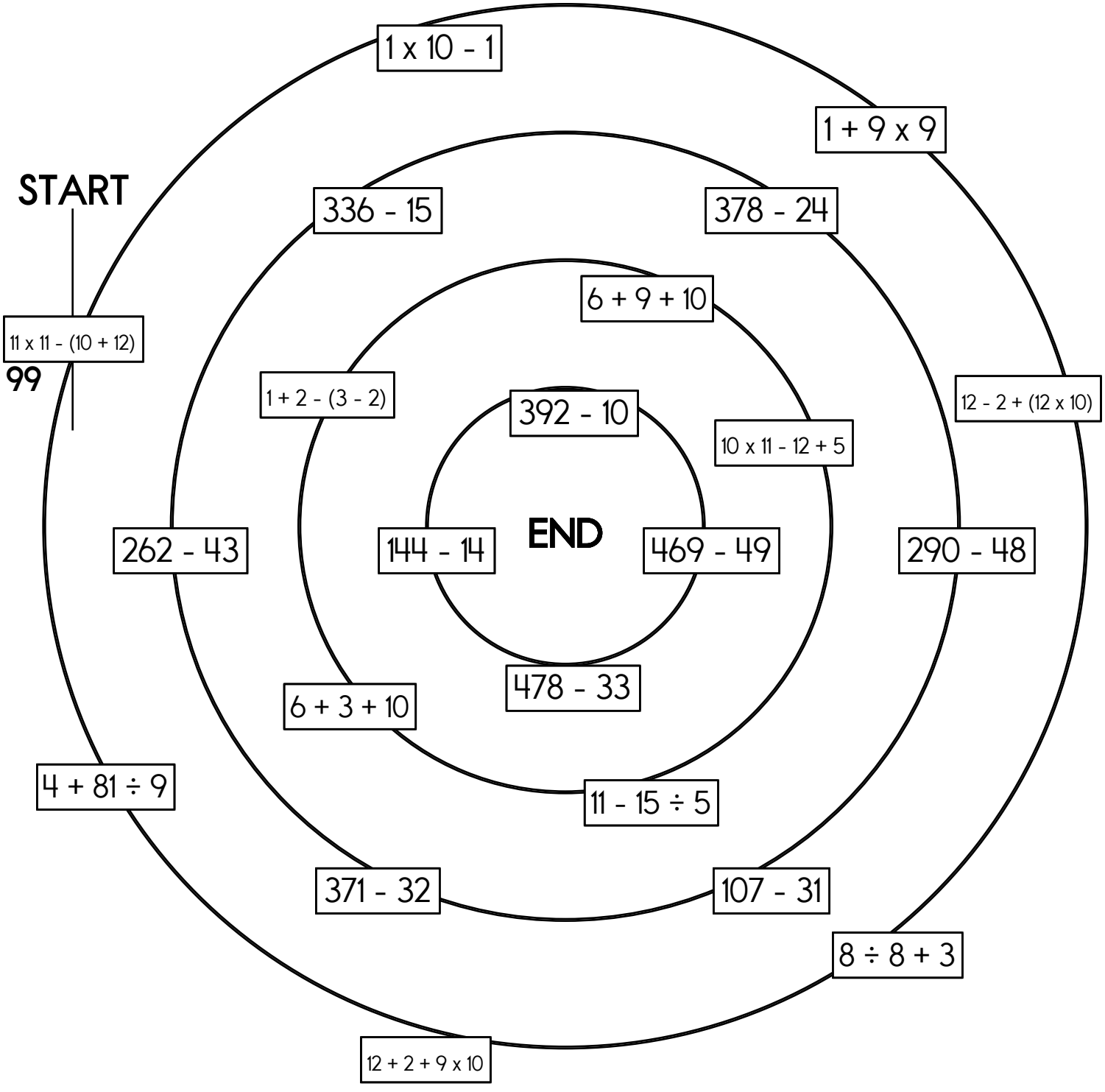
Name: _____

Draw a line from START to END.

445 321 ~~99~~

25

Cross out the number you use above and then write it below.



Name: _____

Kevin knows that his teacher loves birds. He is building a birdhouse for her for Teacher Appreciation Week. He started working on the birdhouse at 2:45 p.m. Saturday afternoon. He worked until it was all finished at 4:01 p.m. that evening. How long did Kevin work on the birdhouse?

Ice cream cones cost $1.24 for one scoop and 40¢ for each additional scoop. Rosa bought a 3-scoop chocolate cone for herself and a 1-scoop vanilla cone for her little brother. How much did the two cones cost?

Ten of the members of the Genealogy Club went on the field trip to the State Division of Vital Statistics. The other 16 members did their research in the library. What is the ratio of students that worked in the library to the total club membership?

The boys in your class each were given a ticket with a number on it. The numbers given out were: 1, 23, 9, 8, 32, 29, 19, 6, and 7. One ticket will be picked from a hat. What are the chances that the winning ticket number is divisible by 4?

Mary rolls a die. What is the chance of her rolling a 4?

_____

6 x 11 = _____

$$\begin{array}{r} 945 \\ -\ 741 \\ \hline \end{array}$$

1 cm = 10 mm

24 cm = _____ mm

17 kg = _____ g

Jessica rolls two dice. She adds the numbers on the two dice. What is the chance of this sum being ten?

36 ÷ 3 =

Name: _____

2 3 1 + 4 7 8	2,977 + 9,362 = _____	12 ÷ 4 = _____ 56 ÷ 8 =

How many pounds are in 112 ounces? _____ pounds	Write an equation to represent this: The difference between fifteen and two is thirteen. _____

Four fancy pens cost $16. At that rate, what is the cost of 8 fancy pens?	8 x 6 = _____	3 6 - 1 1

2 2 + 4 4	72 ÷ 9 =	Jessica and her little sister, April, both have birthdays on the same day. Jessica is nine years old. April is seven years old. Did you know that Jessica was once double the age of April? How many years ago was that?

15 ÷ 5 = _____	2 x 9 = _____	Can 225 be evenly divided by 9? Circle: 225 is evenly divisible by 9 225 is NOT evenly divisible by 9

Name: _____

Which is the better buy?
Four bags of candy for $16 or nine bags of candy for $27?

21 ÷ 3 = _____

You can buy 2 fancy pens for $4 at the store. At this rate, what would be the cost of ten fancy pens?

Can 752 be evenly divided by 4? Circle:
752 is evenly divisible by 4
752 is NOT evenly divisible by 4

633 + 239 = _____

12 x 12 = _____

How many dimes make $1.50?

Circle the smallest number:

902,856	842,106,375
1,734	1,659,037

9 x 8 = _____

72 ÷ 9 = _____

A bike originally priced at $100 is marked down by 20%. What is the sale price?

Circle the greatest number:

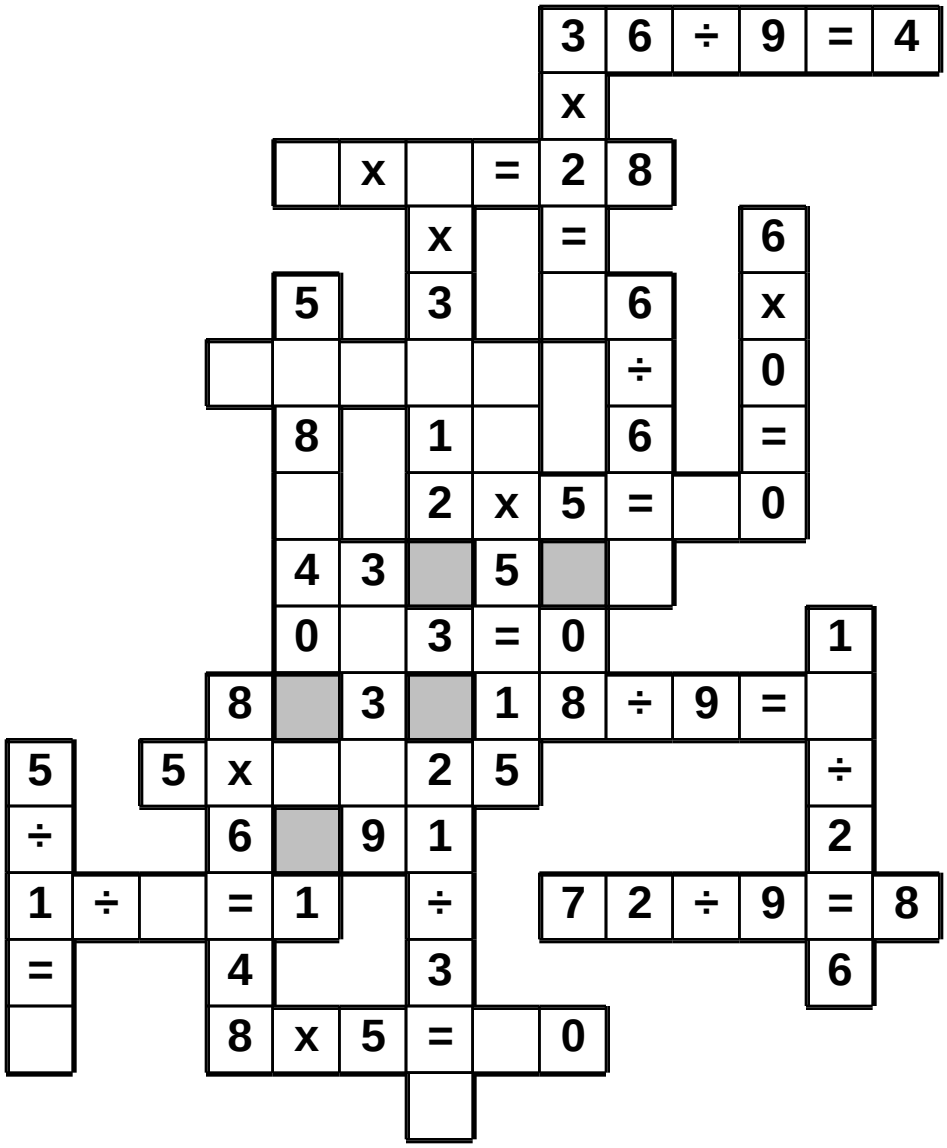
476,319,801
650,792,831,425
50,923,061
8,674

6 x 8 = _____

Name: _____

7 • 4 • 6 • 7 • x • 0 • = • 0 • 3 • = • 1 • 1 • x • 2 • 5 • = • 1 5 • 4 • 7

Use the pieces above to help you fill in the runaway math puzzle.



40 ÷ 4 = _____

Write this as a number in standard form.
Use a comma in your number.

two hundred twenty-one thousand,
sixty-nine

_____

3 x 6 =

110 ÷ 11 = _____

Name: _____

There are four boxes (a red box, a gray box, a brown box, and a yellow box). Each box has a different length (53 cm, 48 cm, 39 cm, and 29 cm), a different width (7 cm, 14 cm, 12 cm, and 2 cm), and a different height (67 cm, 88 cm, 93 cm, and 86 cm).

Figure out the length, width, height, and volume for each box.

1. One box has a width of 14 cm and a height of 86 cm.
2. The red box has the largest width.
3. The brown box has the smallest width.
4. The length of the gray box is 0.29 meters.
5. One box has a length of 53 cm and a height of 86 cm.
6. If the length of the yellow box was increased by 3 cm, the volume of the yellow box would increase by 1,407 cubic centimeters.
7. The volume of the brown box is 7,254 cubic centimeters.

red box: length =_____, width= _____, height = _____, and volume = _____

gray box: length =_____, width= _____, height = _____, and volume = _____

brown box: length =_____, width= _____, height = _____, and volume = _____

yellow box: length =_____, width= _____, height = _____, and volume = _____

The equation 38 ÷ 19 + 18 = 20 uses three different numbers and two different equations.
Make up your own equation which also has three different numbers and two different equations. The answer to your equation needs to be 468.

11,242 + 38,327 = _____

word root **elem** can mean **first principle** **element, elementary**

Name: _____

Find the way from START to END by passing only through numbers that are multiples of eleven.

You can go up, down, left, right, AND diagonally!

START	568	627	154	488	449	432
440	330	429	803	817	459	546
521	299	201	132	696	487	987
952	348	379	891	713	527	383
468	538	553	682	22	247	166
169	428	405	221	649	679	404
61	853	363	913	308	896	351
84	341	616	235	23	892	476
53	462	808	78	466	998	334
255	550	737	858	407	627	END

Name: _____

Use ALL of these digits, including the decimal point. Cross off a digit after you use it.

6 . 4 4

Write a number that is closest to 70.

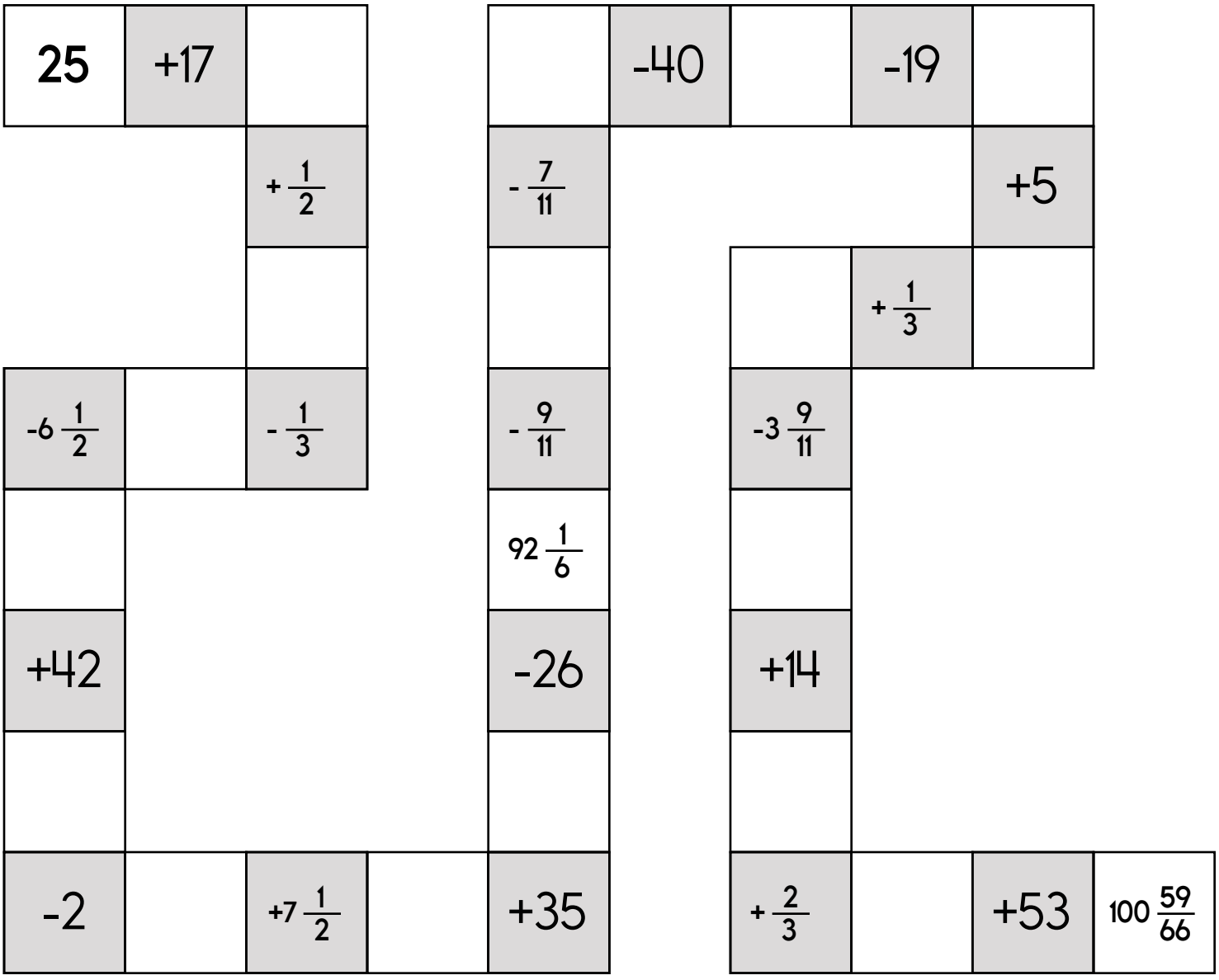
The number 16499 is the largest whole number that, when rounded to the nearest

_____, will be 16000.

$2\frac{2}{5}$ $2\frac{6}{8}$ $1\frac{3}{5}$ $1\frac{1}{8}$ $1\frac{4}{8}$ $1\frac{4}{7}$ $2\frac{1}{5}$ $1\frac{6}{7}$

Name two of the above numbers that have a sum of $3\frac{1}{14}$.

Name: _____



36 + n = 52

5 ÷ 1/8

A toy car can go 4 mph. How long would it take to go 6 miles?

What 3 coins add up to 21 cents?

Know how many inches in a foot? Okay, smarty pants, how many inches in 9 feet?

Round 94,329 to the nearest hundred.

Name: _____

Emily, Matthew, Hunter, Brandon, Ashley, and Jordan each ate something different for breakfast. One had yogurt, one had muffins, one had waffles, one had bacon, one had donuts, and one had pancakes for breakfast.

What did each person have for breakfast?

1. Ashley likes to eat either donuts or waffles for breakfast.
2. Brandon likes to eat either yogurt or bacon for breakfast.
3. Jordan likes to eat either muffins or yogurt for breakfast.
4. Matthew did not have muffins for breakfast.
5. Hunter did not have yogurt or pancakes for breakfast.
6. Jordan did not have pancakes for breakfast.
7. Hunter did not have muffins for breakfast.
8. Emily did not have yogurt or muffins for breakfast.
9. Hunter likes to eat either waffles or donuts for breakfast.
10. Ashley did not have waffles for breakfast.
11. Emily did not have waffles for breakfast.
12. Only Brandon and Emily like meat for breakfast.
13. Matthew did not have pancakes or donuts for breakfast.
14. Matthew did not have pancakes for breakfast.

Emily had _____ for breakfast.

Matthew had _____ for breakfast.

Hunter had _____ for breakfast.

Brandon had _____ for breakfast.

Ashley had _____ for breakfast.

Jordan had _____ for breakfast.

word root **bi** can mean **two** **bicycle, bifocals**

Name: _____

Sudoku Sums of 16

Each row, column, and box must have the numbers 1 through 9.
Hint: Look for sudoku sums. The sum of the two boxes inside of the dashed lines is 16.

Here is an example of a sudoku sum of 16:

2	14

	6			8				
9				1	6		8	4
8				9	3			5
	2						4	8
						5	9	
	9			4		7		
	7			2	5	6		
		3			8			

The letter V has an unknown value. If you multiply V by ten, the product is two. What value does V have?

$0.19 \cdot 8 =$

Rewrite in scientific notation.

550,400,000

Name: _____

Complete each pattern. Write what the rule is for each pattern.

(2,015,993,900,449) , (118,587,876,497) , (6,975,757,441) ,

(410,338,673) , (24,137,569) , (1,419,857) ,

(83,521) , (4,913) , _____, _____

(689,292,459,245) , (53,022,496,865) , (4,078,653,605) ,

(313,742,585) , (24,134,045) , (1,856,465) , (142,805) ,

(10,985) , (845) , _____

Complete each pattern. Write what the rule is.

17, $16\frac{2}{3}$, $16\frac{5}{12}$, $16\frac{1}{12}$, _____, _____, $15\frac{1}{4}$,

$14\frac{11}{12}$, $14\frac{2}{3}$, $14\frac{1}{3}$, $14\frac{1}{12}$, $13\frac{3}{4}$, $13\frac{1}{2}$

$15\frac{1}{2}$, $15\frac{1}{4}$, _____, _____, $14\frac{1}{3}$, $14\frac{1}{12}$, $13\frac{3}{4}$,

$13\frac{1}{2}$, _____, _____, $12\frac{7}{12}$, $12\frac{1}{3}$, 12, $11\frac{3}{4}$

Name: _____

Cross off the number that does NOT belong.

22, 140, 37, 95, 127, 52, 114, 67, 101, 82, 88, 97, 75

Why does _____ not belong in the pattern?

Cross off the number that does NOT belong.

847125, 712584, 258471, 847125, 712584, 258471, 847125, 847125,

712584, 258471, 847125, 712584, 258471, 847125, 712584

Why does _____ not belong in the pattern?

Name: _____

Complete each pattern.

9, 9, ___, 1, 1, 0, 9, 9, g, 1, 1, 0, 9, 9, g, 1, 1

z, 6, 6, ___, ___, 6, 6, o, z, 6, 6, o, z, 6, 6, o

y, y, 5, 6, y, y, 5, ___, ___, y, 5, 6, y, y, 5, 6, y

Complete each pattern. Write what the rule is. HINT: The first two numbers in each pattern are random numbers.

10, 16, 26, 42, 68, 110, 178, 288, 466, 754, 1220, 1974, _____, _____

5, 19, 24, 43, 67, 110, 177, 287, 464, 751, 1215, 1966, _____, _____

Name: _____

Cross off the number that does NOT belong.

8, 88, 91, 195, 1001, 1004, 11044, 11047, 121517, 121520, 1336720

Why does _____ not belong in the pattern?

Cross off the number that does NOT belong. Hint: Look for alternating sequences. Every third number is the greatest common factor.

5, 12, 1, 10, 12, 20, 10, 15, 28, 1, 20,

36, 4, 25, 44, 1, 30, 52, 2, 35, 60

Why does _____ not belong in the pattern?

Name: _____

Taylor, Alexander, Hannah, and Cody each have a car. This year, they each drove a different distance. The distances were: 2,713, 2,658, 2,058, and 2,249 miles. The speedometer on each of the cars keeps track of the total number of miles the cars have been driven. The current speedometer numbers on the cars are 35,581, 35,857, 35,625, and 36,027 miles.

Figure out how many miles each person drove their car for this year and the total number of miles that has been driven (the current speedometer reading).

1. Cody's current speedometer reading is neither thirty-five thousand, eight hundred fifty-seven nor thirty-five thousand, six hundred twenty-five.
2. The person that drove two thousand, two hundred forty-nine miles this year does not have a speedometer reading of thirty-five thousand, eight hundred fifty-seven.
3. The combined total miles that Hannah and Alexander have put on their cars, rounded to the nearest hundreds, is seventy-one thousand, two hundred.
4. Cody drove six hundred fifty more miles than Hannah this year, rounded to the nearest tens.
5. Hannah drove six hundred fewer miles than Cody this year, rounded to the nearest hundreds.
6. Alexander drove more than 2,180 miles this year.
7. Taylor drove more than 2,630 miles this year.
8. The combined total miles that Taylor and Cody have put on their cars, rounded to the nearest hundreds, is seventy-one thousand, nine hundred.
9. The person that drove two thousand, two hundred forty-nine miles this year does not have a speedometer reading of thirty-six thousand, twenty-seven.

Taylor drove _____ miles this year. His or her car's speedometer reads _____ miles.

Alexander drove _____ miles this year. His or her car's speedometer reads _____ miles.

Hannah drove _____ miles this year. His or her car's speedometer reads _____ miles.

Cody drove _____ miles this year. His or her car's speedometer reads _____ miles.

Name: _____

Switzerland, Germany, United States, and Russia competed in a two-run bobsled competition. The times on the first run were one minute and 48.21 seconds, one minute and 48.69 seconds, one minute and 49.05 seconds, and one minute and 48.86 seconds.
The times on the second run were one minute and 46.14 seconds, one minute and 46.64 seconds, one minute and 47.17 seconds, and one minute and 47.36 seconds.

Figure out the time needed for each run and the combined run time for each team.

1. On the second run, the team from United States was two seconds and two hundred seven hundredths of a second faster than their first run.
2. The team from Switzerland needed more than one minute and 48.66 seconds to finish the first race.
3. The bobsled team from Russia clocked a combined time of three minutes and 35.50 seconds.
4. The team that finished the first run in one minute and 48.86 seconds was not the team that finished the second run in either one minute and 47.36 seconds or one minute and 47.17 seconds.
5. The team from Switzerland needed more than one minute and 46.89 seconds to finish the second race.
6. On the first run, the team from Germany was eighty-four hundredths of a second behind the winners of the first run.
7. The team that finished the first run in one minute and 49.05 seconds was not the team that finished the second run in either one minute and 47.17 seconds or one minute and 46.64 seconds.

Switzerland finished the first run in _____ and the second in _____.

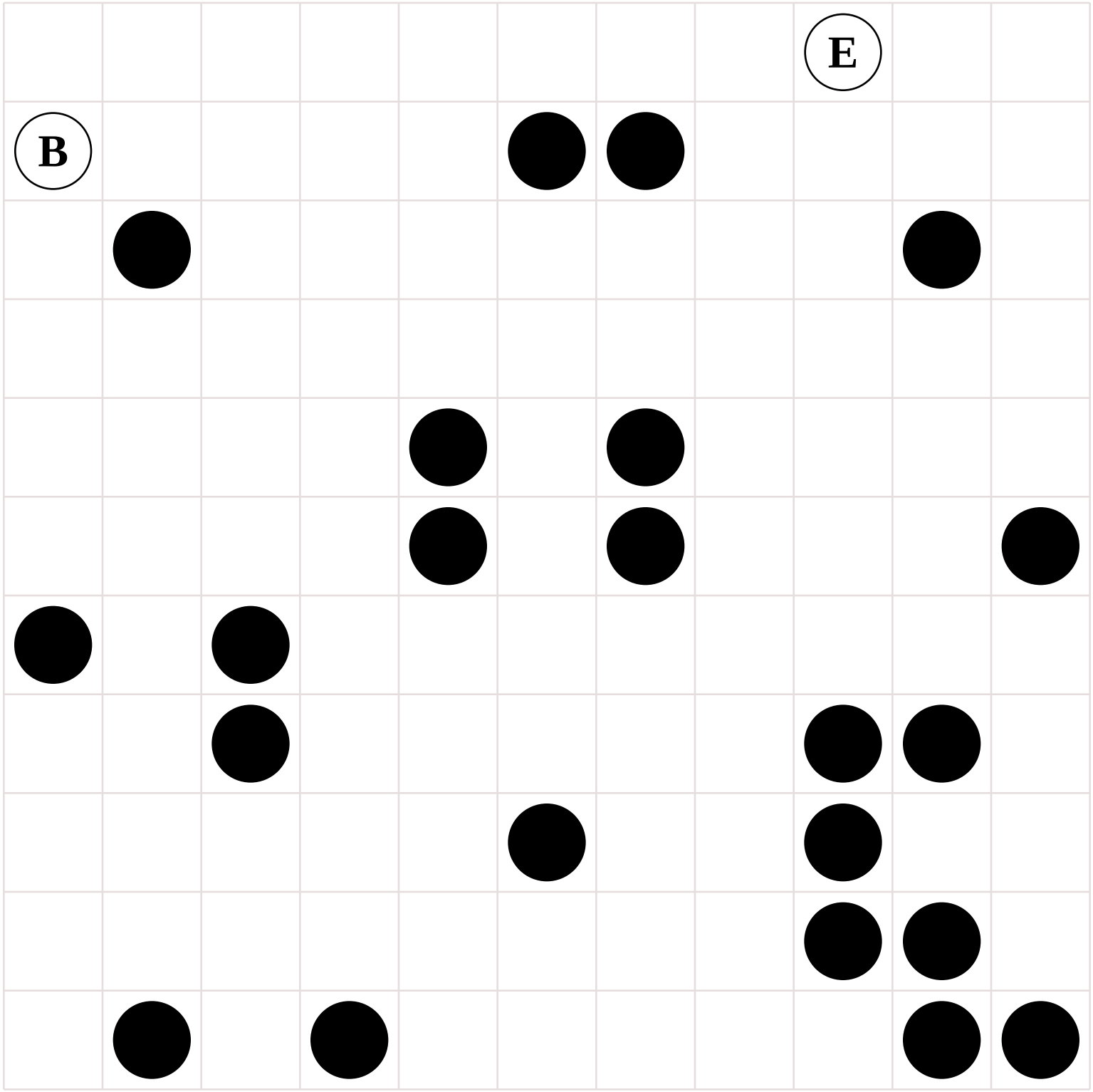
Germany finished the first run in _____ and the second in _____.

United States finished the first run in _____ and the second in _____.

Russia finished the first run in _____ and the second in _____.

Name _____ Date _____

Start on the **B** circle. Do not pick up your pencil. Draw a line going left, right, up, or down. **Every line must end on a circle. No stopping on an empty box.** Try to collect all the circles and end your last line on the **E** circle. You can go through a circle more than once.



Didn't get them all? That's ok. This was hard. I missed only _____ circles.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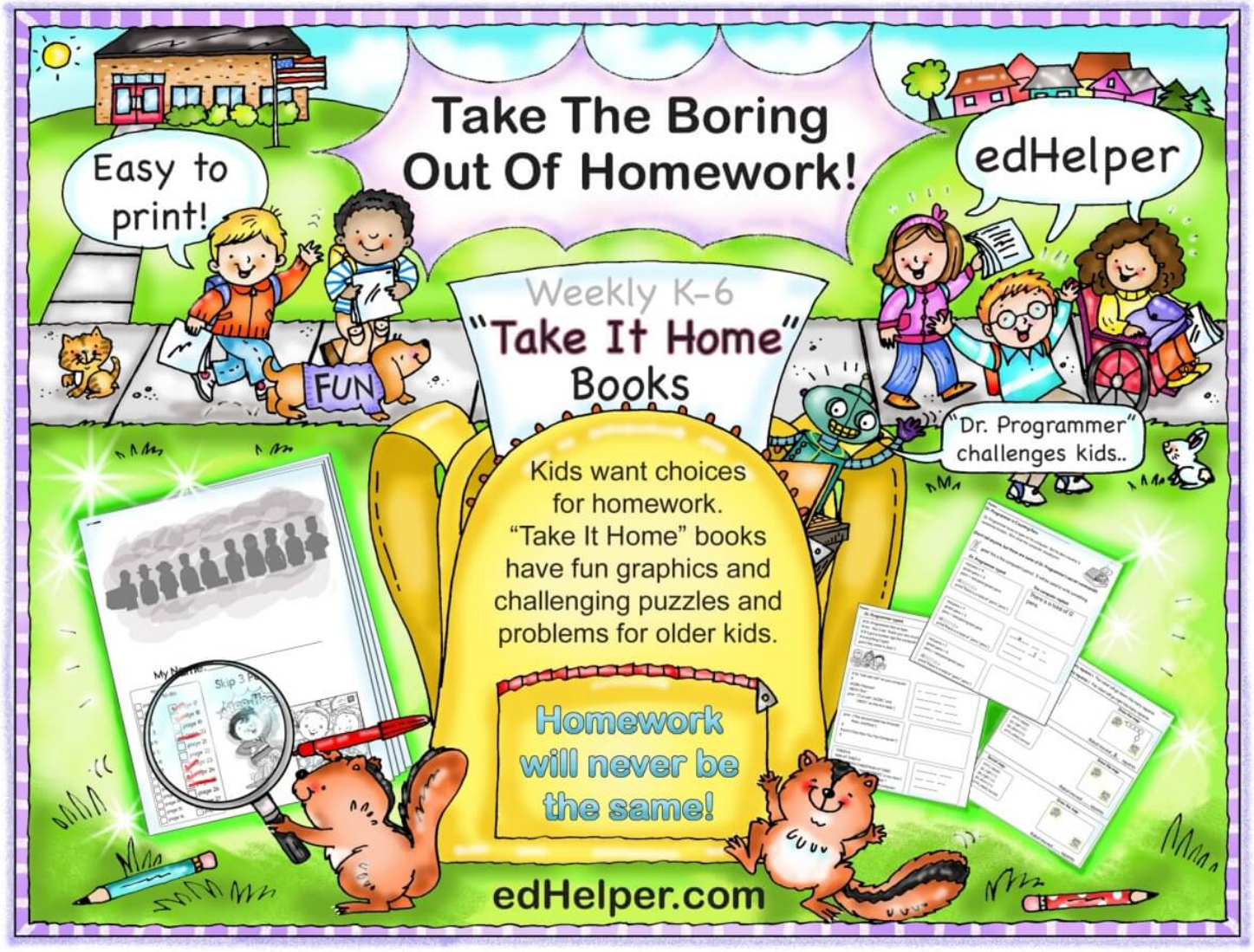
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