

Name: _____

Mental Math

— #1 —

■ Start with the number 9.

9

■ Add the number of pennies in a dollar.

7 1 0 9 9 5 6 4 5 3 (Circle your answer to double check you are correct.)

■ Round to the nearest ten.

3 0 2 6 4 3 1 1 0 7

■ Increase that number by 10.

8 0 9 5 1 2 0 6 4 0

■ Add one-third of a dozen.

4 1 5 1 2 4 9 6 6 2

■ Subtract 28.

4 9 8 4 6 9 6 2 2 0



Mental Math

— #2 —

⌘ Start with the number 401.

5 0 4 0 1 8 4 8 3 2 (Circle your answer to double check you are correct.)

⌘ Increase that number by 11.

4 1 2 6 9 3 7 2 6 5

⌘ Add 48.

5 3 2 4 6 0 6 8 3 1

⌘ Divide by 10.

1 4 4 2 5 4 4 6 3 4

⌘ Round to the nearest ten.

6 5 0 9 4 8 5 2 3 7

⌘ Subtract the number of inches in 2 feet.

9 7 5 3 2 6 7 1 2 2



Make a path by adding up the numbers. Do not visit a circle more than once. The first one is done.

Name: _____

Make change. You can use \$20, \$10, \$5, \$1, 25¢, 10¢, 5¢, or 1¢.

Make \$57.43 any way you want!

Make \$23.28 any way you want!

Make \$17.15 any way you want!

Make \$34.48 any way you want!

Name: _____

56	-3		-17		-1		$-7\frac{1}{2}$	
				$+6\frac{1}{3}$				
				$+\frac{1}{2}$				
	+29		$+\frac{2}{3}$		$+\frac{1}{2}$		$+\frac{1}{3}$	
+44					$102\frac{2}{3}$			
					$+2\frac{2}{3}$		$+5\frac{1}{2}$	
+19		$-\frac{1}{2}$		-35			-36	$85\frac{1}{3}$

1 kg = 1,000 g 13 kg = _____ g	$\begin{array}{r} 804 \\ - 652 \\ \hline \end{array}$	<p>Add the correct end punctuation for this sentence.</p> <p>Did you watch the president's speech last night</p>
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Name: _____

<p>Jack arrived at the ice cream shop at 12:50 p.m. He bought a black cow root beer float. He drank the float and left after 26 minutes. At what time did he leave the ice cream shop?</p>	<p>Uncle Allen walked to school when he was a child. He said it was fun, especially in the winter. Then he and his best friend had snowball fights on the way! It took them 18 minutes to walk to school. If school started at 8:30 a.m., what time did they have to leave home to get to school on time?</p>	<p>David has an appointment with his doctor at 3:00 p.m. He has to get a physical so he can play football. It is 1:20 p.m. now and it will take him 45 minutes to get to the doctor's office. How long can he play a video game before he has to leave to get to the appointment on time?</p>
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<p>Write 3,757 in words.</p> <p>_____</p>	$\begin{array}{r} 491 \\ + 490 \\ \hline \end{array}$
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<p>Can 860 be evenly divided by 4? Circle:</p> <p>860 is evenly divisible by 4</p> <p>860 is NOT evenly divisible by 4</p>	<p>Emma was given four numbers: 8, 7, 14, and 15. She needs to use two of these numbers to make a fraction. Can she make a fraction that is less than five-sixths?</p>
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Name: _____

Write the missing family fact. $9 \times 23 = 207$ $207 \div 23 = 9$ $23 \times 9 = 207$ _____	13 cm = _____ mm	$\begin{array}{r} 37 \\ + 25 \\ \hline \end{array}$

$\begin{array}{r} 49 \\ - 38 \\ \hline \end{array}$	Circle the smallest number: 1,486 581,902,764 891,652,347,046 5,281,370	How far do you think it is from the ground to your chin? Write an estimate of the distance you think it could be.

How many grams are in 6 kilograms? _____ grams	How many digits are in 1,000 times 10,000? _____
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$5 \times 6 =$	Emma will win if a random number pulled out of a box is a multiple of 3. 33 pieces of paper, numbered 48 to 80, are put inside a box. What is the chance that Emma will win?	$3 \times 5 =$

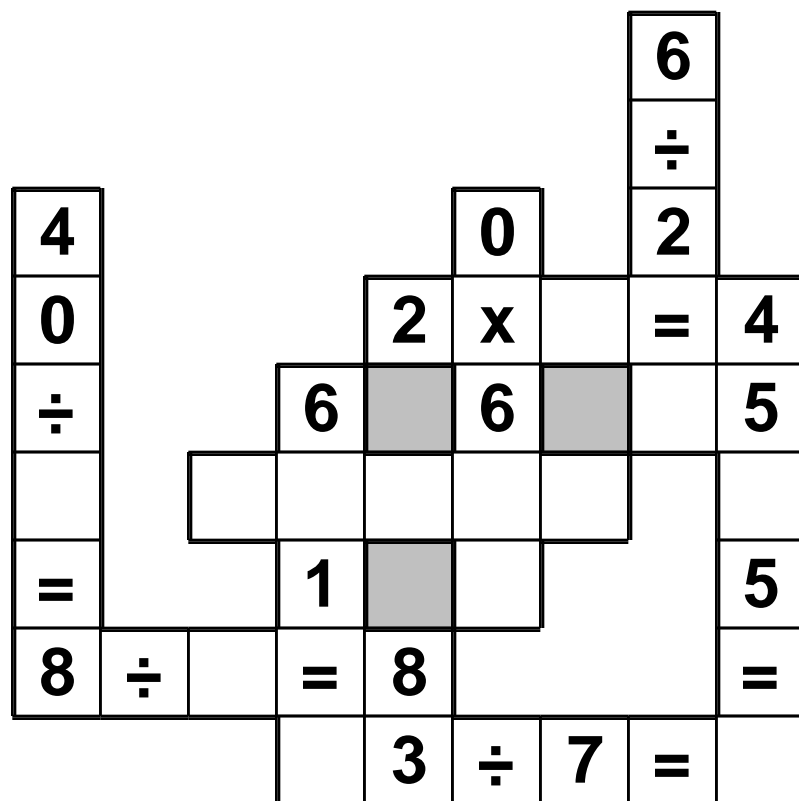
Name: _____

<p>Can 626 be evenly divided by 6? Circle: 626 is NOT evenly divisible by 6 626 is evenly divisible by 6</p>	<p>$108 \div 9 =$</p>	
<p>Eric invented a robotic bug. The bug can crawl five centimeters in twenty seconds. How long would it take the bug to crawl thirty-eight centimeters?</p>	<p>Write an equation to represent this: The difference between twenty and eight is twelve. _____</p>	
<p>Rosa will win if a random number pulled out of a box is an odd number. 24 pieces of paper, numbered 1 to 24, are put inside a box. What is the chance that Rosa will win?</p>	<p>$55 \div 11 =$</p>	
	<p>For 937,574,826,914,283, write the digit that is in the ten thousands place. _____</p> <p>The Statue of Liberty was dedicated on October 28, 1886. As of October 28, 2023, how long has it been since the Statue of Liberty was dedicated?</p>	<p>$4 \times 3 =$</p>

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2 • 3 • 5 • 5 • ÷ • 5 • = • 1 • ÷ • 0 • 1 • 6 • 9

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



What Words? Your Words!

Fill in the boxes with letters to make words. Each box is worth points. Earn points by filling in as many boxes as you can. Sum up the points you earn for each word.

Make a Word

Sum

1 2 4 6 10 16
H E A R T H S

23

1 2 4 8 14
F A

1 2 4 6 8 12 18
U

Make a Word

Sum

1 2 6 10
P I

1 2 4 6 10 14
G I

1 2 4 8 12 18 24
V

word root **inter** can mean **between**

interstate, international

Name: _____

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

. 8 6 5

Write a number that is closest to 70.

Rose and Sara each have a soccer game at 8 a.m. on different fields. Rose's soccer field is 114 yards long. Sara's soccer field is 358 feet long. Which field is longer and by how much?

The number 649 is the largest whole number that, when rounded to the nearest _____, will be 600.

Name: _____

Here is a chart on turns to help you answer the questions.

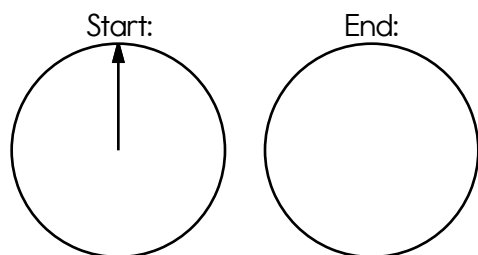
A $\frac{1}{4}$ turn is 90° .

A $\frac{1}{2}$ turn is 180° .

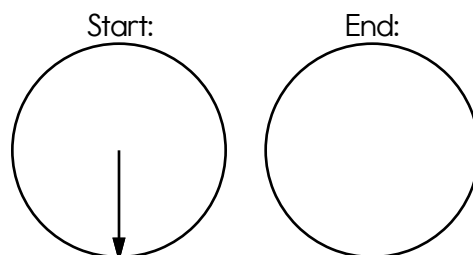
A $\frac{3}{4}$ turn is 270° .

A full turn is 360° .

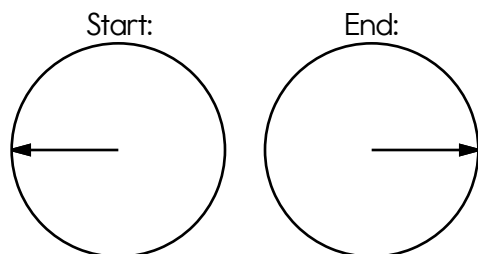
From the start position the pointer turns $\frac{3}{4}$ clockwise. Draw the arrow for the end position.



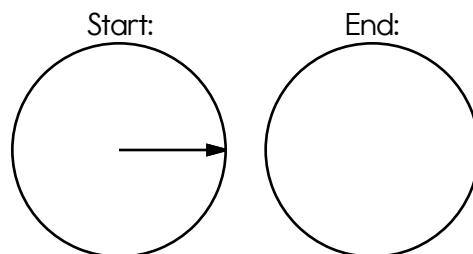
From the start position the pointer turns $\frac{3}{4}$ clockwise. Draw the arrow for the end position.



The start and end positions are shown. Explain the turn that was made.



From the start position the pointer turns 90° clockwise. Draw the arrow for the end position.



An angle that is 329 degrees is

between a -turn and a -turn.

Two right angles equals a -turn.

Ashley is playing a game. She stands in the middle of a circle.

At the start of the game she faces south.

Then she makes a $\frac{1}{4}$ -turn counterclockwise.

In which direction is she now facing?

Name: _____

Simplify each fraction. Draw lines between equal fractions.

$$\frac{42}{77}$$

•

•

$$\frac{8}{16}$$

$$\frac{1}{2}$$

•

•

$$\frac{6}{11}$$

$$\frac{24}{33}$$

•

•

$$\frac{11}{12}$$

$$\frac{66}{72}$$

•

•

$$\frac{64}{88}$$

A rectangle is 32 cm on one side and 6 cm on another side. What is the perimeter?

$$5\frac{3}{6} + 2\frac{5}{6}$$

It was 7 degrees below zero in the morning. By afternoon the temperature rose 23 degrees. How warm was it?

What is the area of a rectangle with sides 5 cm and 6 cm?

$$5 \div \frac{1}{8}$$

26, 39, 52, 65, 78, 91, 104,
_____, 130, 143

Circle the three numbers whose product equals 324.

6 7 12

3 9 8

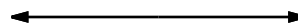
169, 182, 195, _____, 221,

234, 247, 260, 273

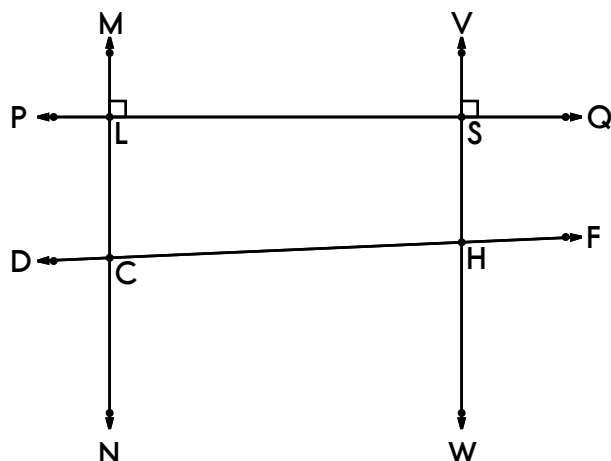
Estimate quickly the difference.
4,310 - 2,400

Name: _____

Sketch 2 lines \overleftrightarrow{KL} and \overleftrightarrow{XY} that are perpendicular.

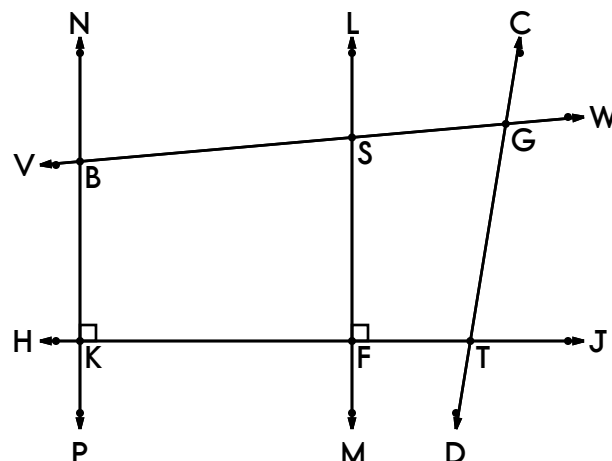


What kind of angle is this?



Name 3 angles.

Name 2 pairs of intersecting lines.



Name 2 lines which include point F.

Name 3 angles.

Name 3 rays.

Sketch an acute angle named $\angle GHI$.

Sketch a right angle named $\angle ABC$.

What kind of angle has a measure of 180° ?

Name: _____

Holly likes to multiply a number by itself. Why? Nobody knows!

"If I take my favorite number and multiply it by itself, the product will be only 12 away from 16. Can you guess my favorite number?" asks Holly.

Write as a decimal.

$$17 \frac{497}{1000}$$

Write as a decimal.
Nine and five hundredths

Write as a decimal.
Sixteen hundredths

$$10 \div \frac{1}{3}$$

How much money is 1
quarter, 1 dime, 4 nickels,
and 1 penny?

How many meters are
there in 135 kilometers?

Circle the words that best complete the sentence.

(In/Inn) the end, I am sure that I
will (pass/past) Language Arts.

What is the homophone of this word?

navel

Name: _____

Wendy likes to multiply a number by itself. Why? Nobody knows!

"If I take my favorite number and multiply it by itself, the product will be only 16 away from 97. Can you guess my favorite number?" asks Wendy.

Change to a percent.

$$\frac{57}{100}$$

Change to a percent.

$$\frac{78}{100}$$

Change to a percent.

$$\frac{1}{10}$$

$$7\frac{5}{9} + 5\frac{6}{9}$$

The perimeter of a rectangle is 20 cm. The longer side is 7 cm. How long is the shorter side?

Round 6,308 to the nearest thousand.

$$(3 + 4) + 6 =$$

Add the correct end punctuation for this sentence.

Please bring that stack of books to me

Name: _____

Add one set of parenthesis to each equation so that the equation is true.

$$(7 + 2) + 2 = 11$$

$$6 \div (4 - 1) = 2$$

$$10 + 6 \times 11 = 76$$

$$10 + 6 \times 11 = 176$$

$$3 + 12 \times 5 = 63$$

$$3 + 12 \times 5 = 75$$

$$4 + 4 \div 2 = 6$$

$$10 - 2 \times 8 = 64$$

$$3 \times 12 + 1 + 4 = 43$$

$$12 - 2 + 3 \div 3 = 11$$

$$12 \times 12 - 3 + 11 = 152$$

$$7 + 3 \times 4 + 6 = 25$$

$$7 - 3 + 1 \times 3 = 7$$

$$8 + 4 + 1 \times 5 = 17$$

$$11 \div 11 + 9 + 2 = 12$$

$$8 - 3 + 1 + 1 = 7$$

$$11 \div 11 + 11 + 6 = 18$$

$$10 + 9 + 11 - 3 = 27$$

Name: _____

Cross off the number that does NOT belong.

$$\frac{1}{16807}, \frac{1}{2401}, \frac{1}{343}, \frac{1}{49},$$

$$\frac{1}{7}, (1), (6), (7),$$

$$(49), (343), (2,401)$$

Why does _____ not belong in the pattern?

Cross off the number that does NOT belong.

$$3\frac{10}{25}, 3\frac{5}{25}, 3, 2\frac{20}{25}, 2\frac{15}{25}, 2\frac{12}{25}, 2\frac{10}{25}, 2\frac{5}{25}, 2,$$

$$1\frac{20}{25}, 1\frac{15}{25}, 1\frac{10}{25}, 1\frac{5}{25}, 1, \frac{20}{25}, \frac{15}{25}, \frac{10}{25}$$

Why does _____ not belong in the pattern?

Name: _____

Only use a pencil to write the numbers on the blank lines. You do not need any scrap paper! Solve it in your head. If you forget a number, then start over. Cool, huh?

Mental Math



= Do it
in your
head!

imagine 9 in your head

add 7

add 9

Write the ones digit.

_____ **A**

imagine 7 in your head

add 6

subtract 6

subtract 2

subtract 5

add 2

Write the number.

_____ **B**

imagine 6 in your head

add 5

double it

subtract 6

add 4

Add the tens digit to the ones digit.
Write the sum.

_____ **C**

imagine 8 in your head

double it

subtract 9

add 2

Write the number.

_____ **D**

What is the sum?

A + B + C + D

Wow! Great job! That's the answer, but do you know how to SPELL the number?

_____ **g** _____ **e** _____

4 after 17 _____

7 before 19 _____

6 before 12 _____

9 after 16 _____

3 before 16 _____

4 before 11 _____

6 after 14 _____

2 before 13 _____

8 before 18 _____

Name: _____

This puzzle has a large number in the middle, which is the sum of the four numbers that surround it.

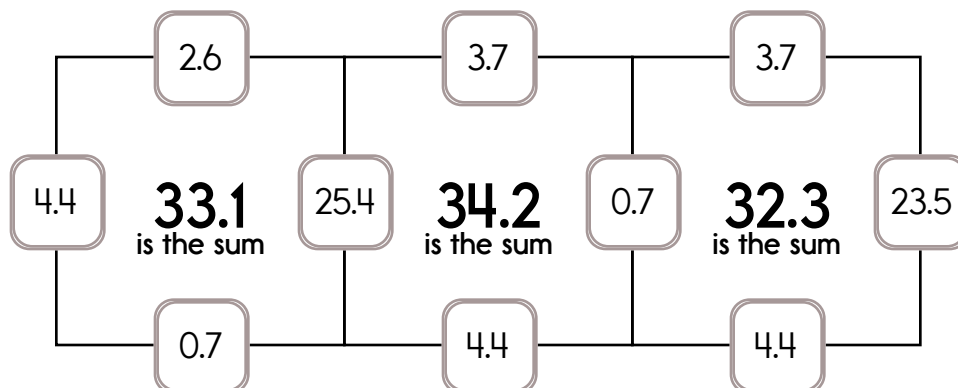
Example:

$$4.4 + 25.4 + 2.6 + 0.7 = 33.1$$

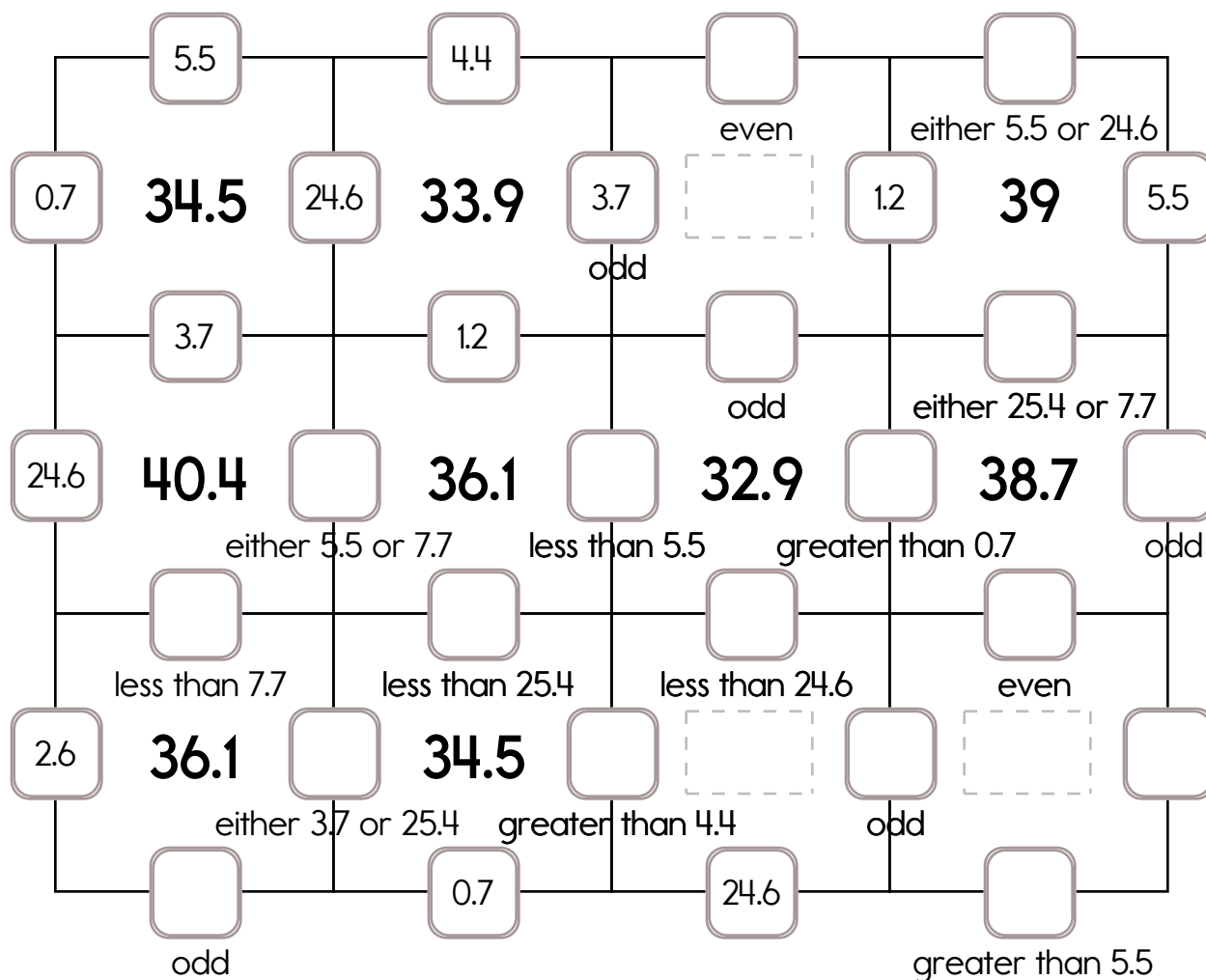
Example:

$$0.7 + 23.5 + 3.7 + 4.4 = 32.3$$

Sample:

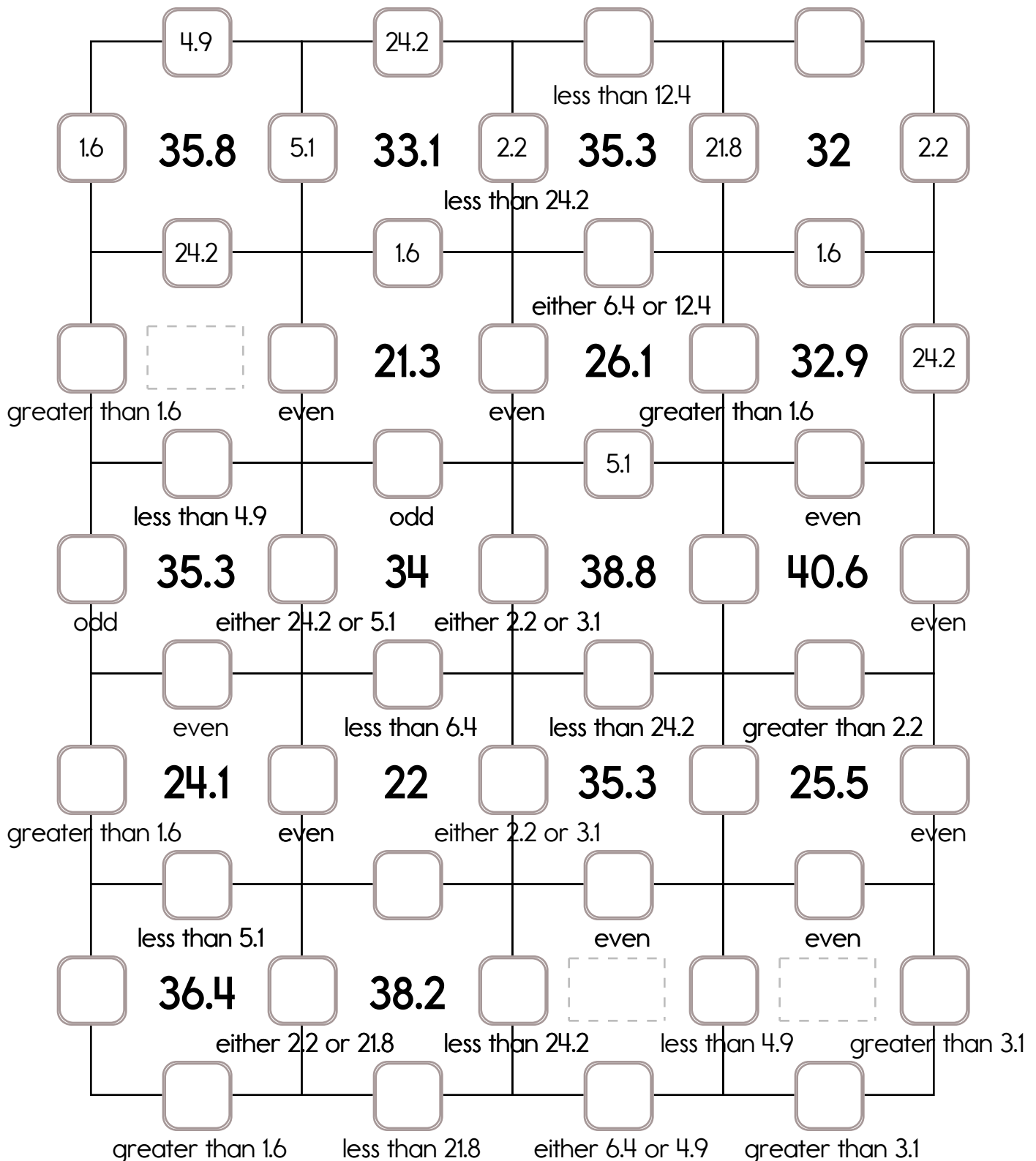


Fill in the missing numbers. How? The sum of the four surrounding numbers is in the center of each square. Exactly one of the four numbers has to be one of these numbers: 23.5, 24.6, or 25.4. The other three numbers have to all be **DIFFERENT** and must be from these: 4.4, 5.5, 0.7, 2.6, 3.7, 1.2, or 7.7.



Name: _____

Fill in the missing numbers. How? The sum of the four surrounding numbers is in the center of each square. Exactly one of the four numbers has to be one of these numbers: 24.2, 21.8, or 12.4. The other three numbers have to all be DIFFERENT and must be from these: 3.1, 5.1, 4.9, 6.4, 1.6, or 2.2.

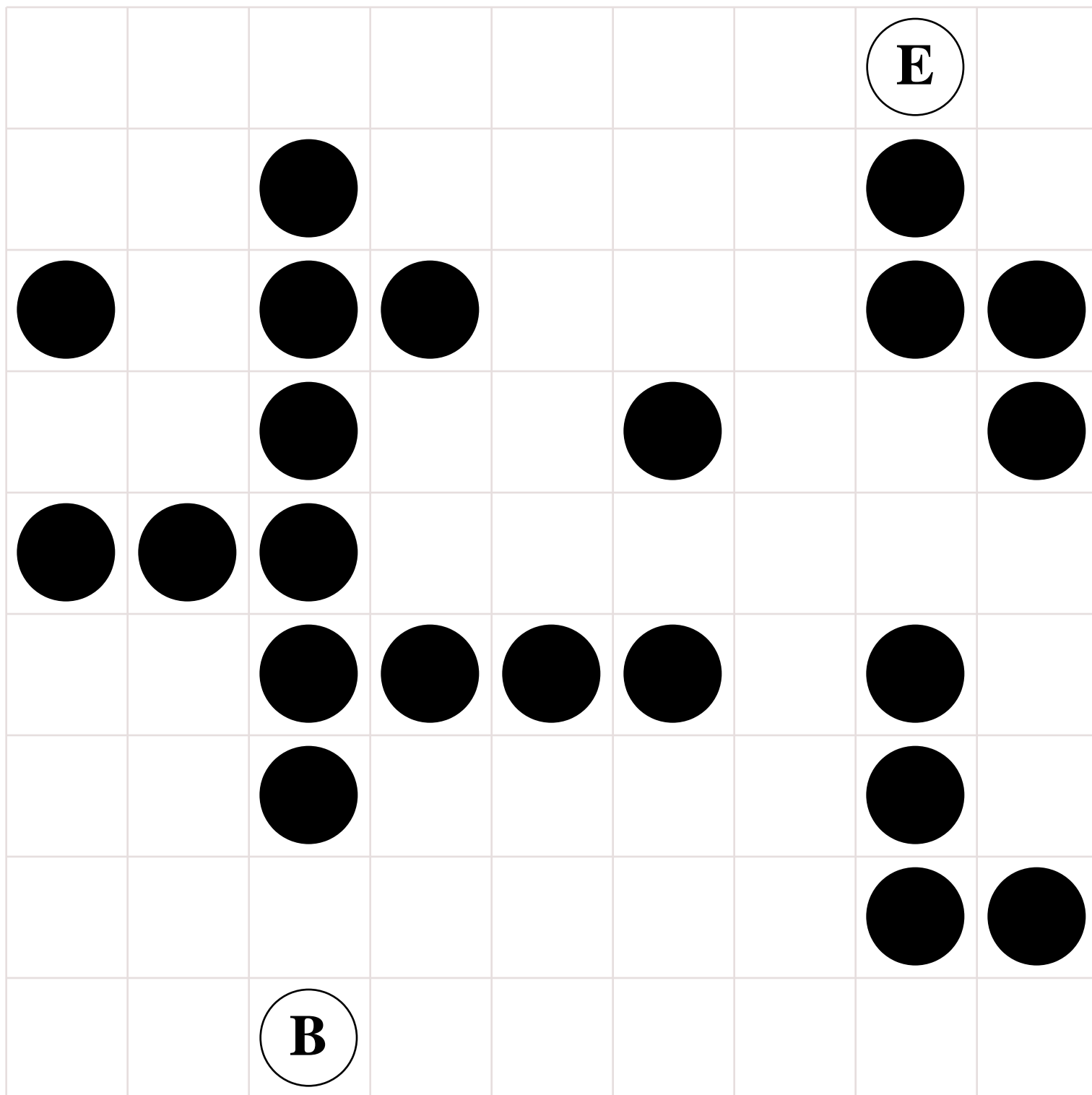


Name _____



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 finish 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 _____ circle(s).



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