| 1 | +2 | | +2 | | -3 | | +1 | | -3 | |

Name: _____

Challenge Math
Book 30

Start on the square. Draw exactly 5 lines without picking up your pencil to connect all the circles.

Left column (top to bottom): 3, +3, -2, -1, +2, -1, -3
Right column (top to bottom): +1, +3, -1, +1, -2, +3, 5
Bottom row (left to right): +3, -1, +2, +1, -2
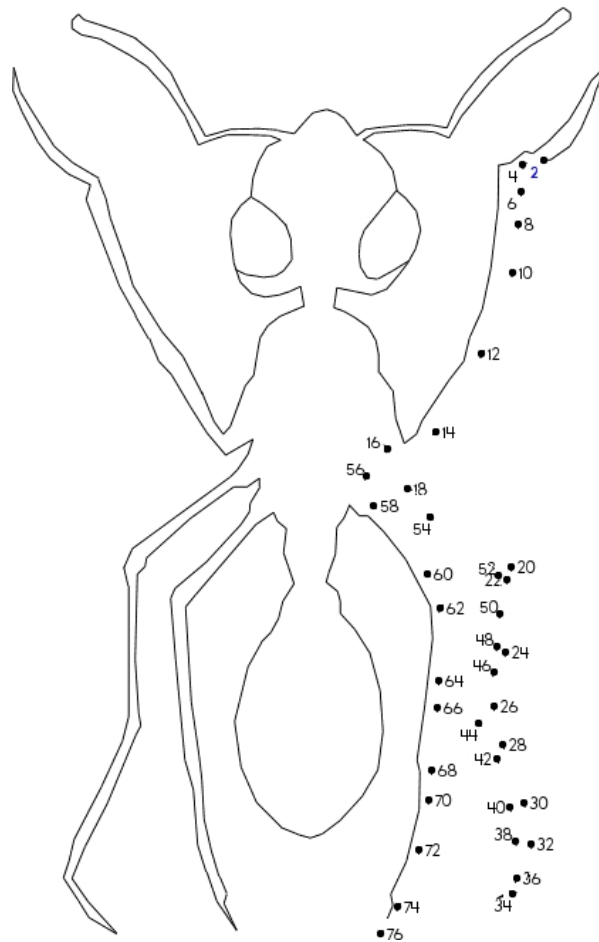
Name: _____

Rosa pulled four buckets of water out of the well. Maria pulled three buckets of water out of the well. How many buckets of water did Rosa and Maria pull out of the well altogether?	Ava used all her breath to blow up two floats and three life vests. How many water items did she blow up in all?	Max bought 6 ice cream sodas. He gave 3 sodas to his brother. How many sodas are left?

Count by 2s.

$\underline{\quad 2 \quad}$, $\underline{\quad 4 \quad}$, $\underline{\qquad}$, $\underline{\qquad}$, $\underline{\quad 10 \quad}$, $\underline{\qquad}$, $\underline{\quad 14 \quad}$, $\underline{\qquad}$, $\underline{\qquad}$, $\underline{\qquad}$, $\underline{\quad 22 \quad}$, $\underline{\qquad}$

word root **il** can mean **in or into**   **illuminate, illumination, illuminative**

Name: _____

Draw a line from START to END.

58 + 7   67 + 3   ~~63 + 8~~

43 + 3

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

79

72

START

71

92

71

43

63 + 8

71

110

71

48

66

63   END   46   70

70

47

77

85

76

65   72

74

48
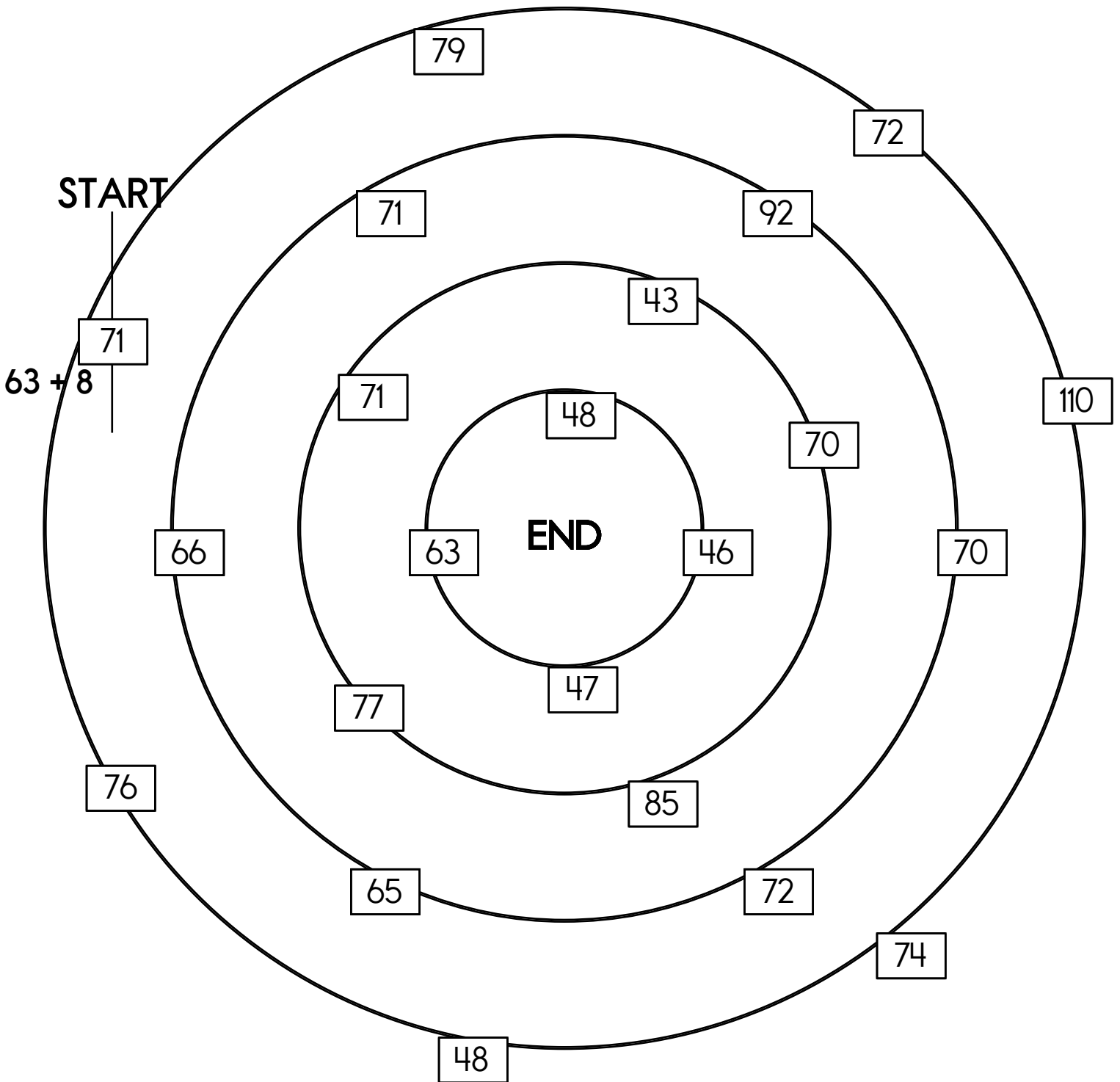
Name: _____

Larry, Lou, and Leif the leprechauns lost lots of gold coins.

Larry lost 4 gold coins.

Lou lost 2 gold coins.

Leif lost 8 gold coins.

Who lost the most coins?

How many more gold coins did Larry lose than Lou?

How many gold coins were lost in all?

Name: _____

Gavin had ten baseball caps. He gave two baseball caps to his best friend. How many baseball caps did Gavin have left?

Maria pulled three buckets of water out of the well. Amy pulled two buckets of water out of the well. How many buckets of water did Maria and Amy pull out of the well altogether?

Alex put 7 sodas on a tray. Hannah took 2 sodas off the tray. How many sodas were left on the tray?

Double two.

$$\begin{array}{r} 7 \\ -\ 3 \\ \hline \end{array}$$

20 - ___ = 16

Jason's dog had five puppies. His sister's dog had two puppies. How many puppies were there in all?

David made eight snowballs for his fort. Peter made nine snowballs. How many snowballs did they make in all?

Connor loves oatmeal. He eats it every day. On Monday he ate 3 bowls of it. On Tuesday he ate 2 bowls of oatmeal. On Wednesday he ate 3 more bowls. On Thursday he ate 1 bowl. On Friday he ate 2 bowls. How many bowls of oatmeal did he eat in all?

Name: _____

There are 3 chocolate ice cream sodas on the table. There are 8 vanilla ice cream sodas on the table. How many more vanilla sodas are there?

It took Holly 13 minutes to drink her soda. It took Jack 6 minutes. How many minutes more did it take Holly?

Kayla picked some flowers for her mother. She picked 8 yellow flowers. She picked 4 red flowers. She picked 5 blue flowers. She picked 3 pink flowers. How many flowers did she pick in all?

What is ten less than 56?

What is ten more than 52?

15 + ____ = 25

Vera ate two blini. Baba Nina ate one blini. Mama Katya ate four blini. Papa Jeff ate five blini. How many blini did they eat in all?

Mr. Hernandez has 17 ties. He gave his brother 7 ties. How many ties does he have now?

Nathan liked weird games. He made up 11 weird games. He played 10 of them with his friends. How many of the games were not played?

95, ____, ____, ____, ____, ____, 101

$$\begin{array}{r} 8 \\ + \ 4 \\ \hline \end{array}$$
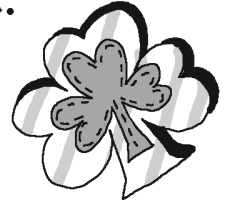
39, ____, 41, ____, ____, 44

Name: _____

Finish.

$8 + 4 =$ ___ $12 - 7 =$ ___

$9 + 3 =$ ___ $8 - 6 =$ ___

$4 + 5 =$ ___ $11 - 5 =$ ___

$7 + 7 =$ ___ $10 - 2 =$ ___

Write the numbers that come before.

___ ___ ___ ___ **110**

Write the numbers that come after.

110 ___ ___ ___ ___

Write the time shown.

____ : ____
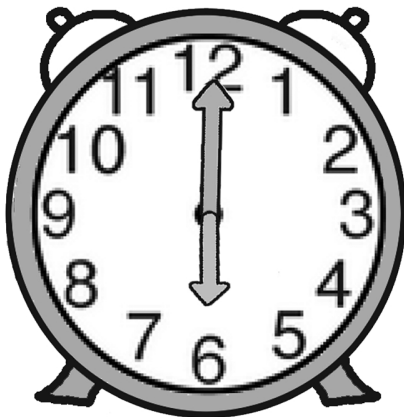
Write the time shown.

____ : ____

Name: _____

Puzzle: Work Area:

4	🦘	13
4	🥚	11
8	16	➕

4		13
4		11
8	16	➕

The sum for each column
and row is given.

🦘 = _____   🥚 = _____

Puzzle: Work Area:

🐼	〰	10
🐼	🥚	8
4	14	➕

		10
		8
4	14	➕

The sum for each column
and row is given.

〰 = _____   🥚 = _____   🐼 = _____

B, F, J, _____, R, V, Z

How many dots on the bug?

56, ___, ___, 59, 60,

___, ___

Name: _____

Fill in the missing numbers.

Only rule - The same number CAN NOT be next to each other, in ANY direction.

Dark lines surround a block. Numbers to use in a block:

  A block with 1 space has to be the number 1.
  A block with 2 spaces must have the numbers 1 and 2.
  A block with 3 spaces must have the numbers 1, 2, and 3.
  A block with 4 spaces must have the numbers 1, 2, 3, and 4.

Puzzle 1

				1
2	4	1	3	2
1	3	2	4	1
2	4	1	3	2

An entire block with 4 spaces is blank. Since the block is 4 spaces it uses the numbers 1-4.

1   3   4   2

Puzzle 2

			3	2
2		1	4	1
1	4	2	3	2
2	3	1	4	1

An entire block with 4 spaces is blank. Since the block is 4 spaces it uses the numbers 1-4.

4   3   1   2

Puzzle 3

1	3	2	4	1
		1	3	
1	3		4	1

Hint - These numbers are missing:

2   2   2   4

Puzzle 4

1	2	1		1
3	4	3		3
1	2		4	1

Hint - These numbers are missing:

1   2   4

Count by 2s.	$3 + 4 = \boxed{}$	$2 + 9 = \boxed{}$	$4 + 8 = \boxed{}$	$9 + 4 = \boxed{}$
11 13 ____				

Name: _____

Fill in the missing numbers.

Only rule - The same number CAN NOT be next to each other, in ANY direction.

	2	1		
		3		3
2	1		1	2

Hint - These numbers are missing:

3 2 2 4 1 4 1

1	4	1	2	1
		2		4
1		4	1		1

Hint - These numbers are missing:

3 3 2 3

	3		1
	1		
4	3	2	1

Hint - These numbers are missing:

2 3 2 4 4

	3	4	2
	2		3
	3	4	

Hint - These numbers are missing:

1 1 4 2 1

58, ____, 60, ____, ____, ____, 64
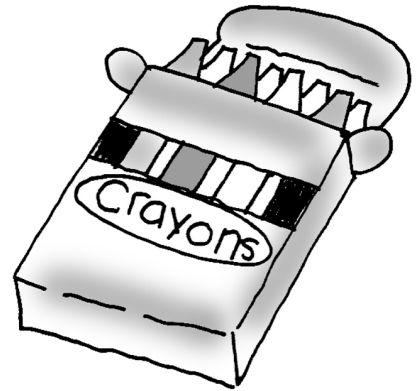
98, ____, ____, ____, ____, ____, 104

Double two.
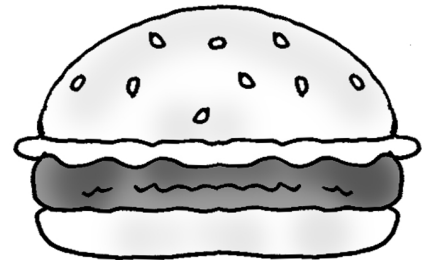
Name: _____

I Found Lighter

Look at the pictures. Draw something in the boxes next to each that is lighter.

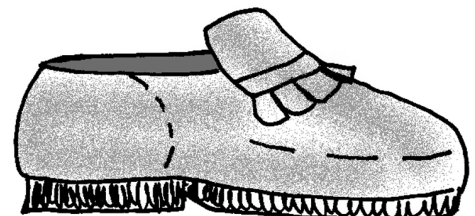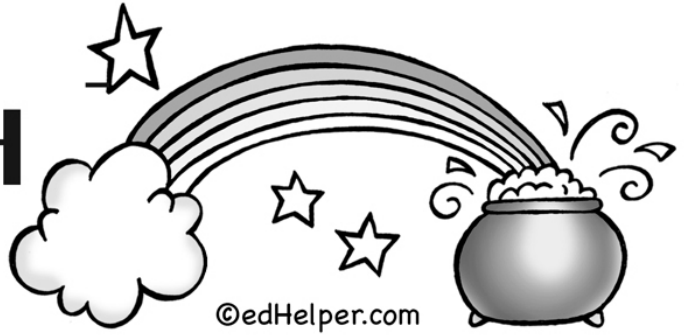is lighter than...

is lighter than...

is lighter than...

Name: _____

RAINBOW MATH

Solve the math problems within each line.
Compare the two answers in that line and
circle the correct symbol (<, > or =).

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1.   18 − 9 $>$ $<$ $=$ 3 + 4

2.   11 + 3 $>$ $<$ $=$ 15 − 3

3.   8 − 5 $>$ $<$ $=$ 8 + 3

4.   14 − 8 $>$ $<$ $=$ 9 + 8

5.   23 − 2 $>$ $<$ $=$ 19 + 3

6.   12 + 4 $>$ $<$ $=$ 20 − 2

Name: _____

6	+1		+1		-1		+3	

+2

-3   +2   +2   +2
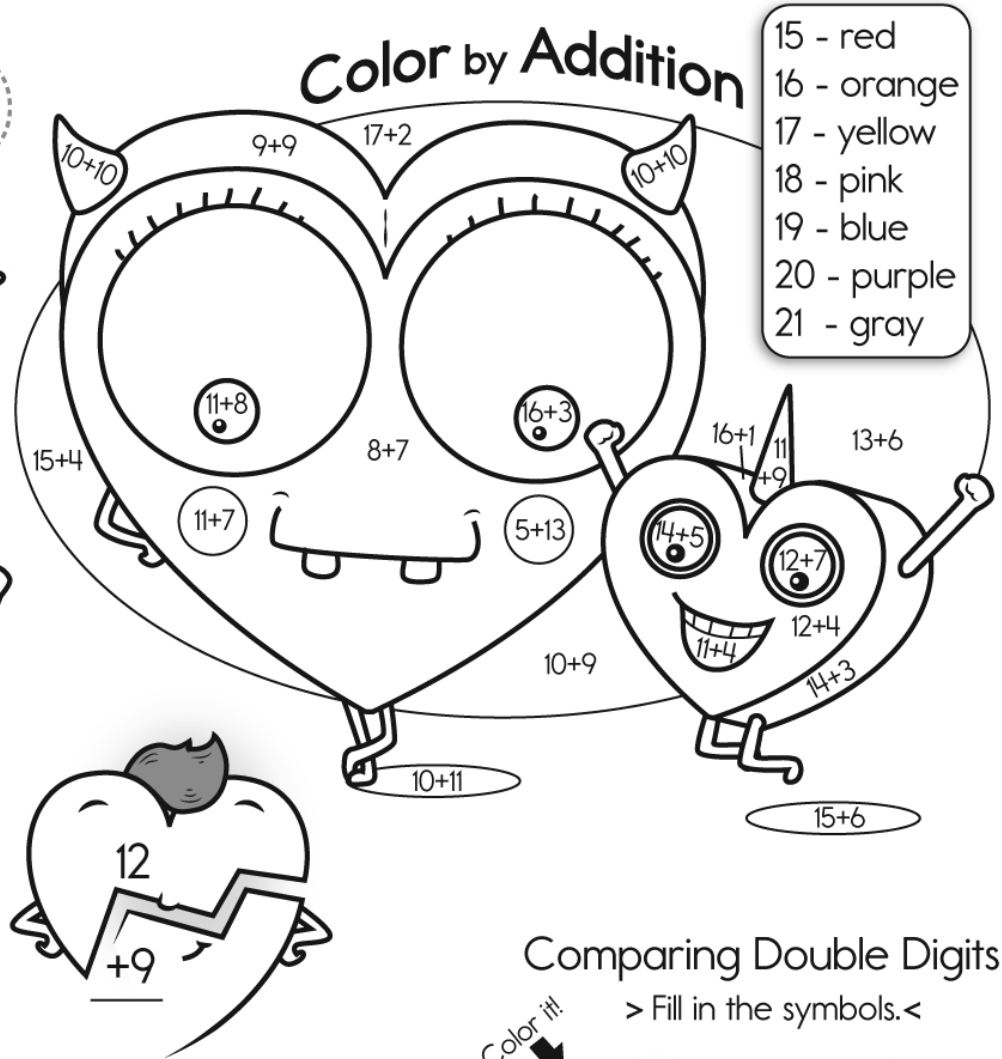
-2

-3

+3

-1

-3

+3   +2

1

-3

+3

-2

-1

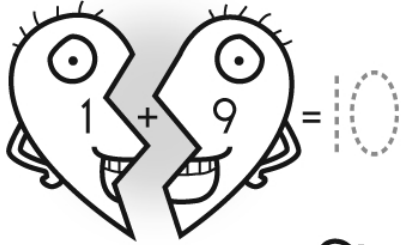-1   +1   -2   -1   8

How much is this?

What is ten less than 66?

How many?

卌 ||

Name: _____

$1 + 9 = 10$

$15 + 7$ _____

$20 + 8 =$

$12 + 9$ _____

Color by Addition

15 - red	
16 - orange	
17 - yellow	
18 - pink	
19 - blue	
20 - purple	
21 - gray	

$9+9$ $17+2$ $10+10$ $10+10$

$11+8$ $16+3$ $16+1$ $11+9$ $13+6$

$15+4$ $8+7$

$11+7$ $5+13$ $14+5$ $12+7$

$12+4$

$11+4$ $14+3$

$10+9$

$10+11$

$15+6$

Add and Match

[hearts] + [cupcakes] = 15

[cupcakes] + [hearts] =

[hearts] + [cupcakes] =

[cupcakes] + [rolls] =
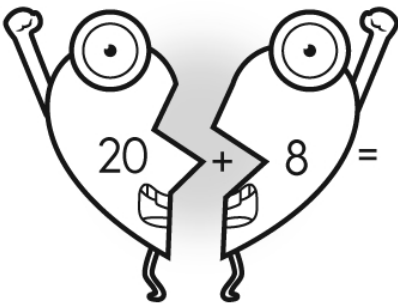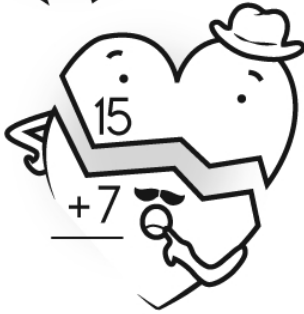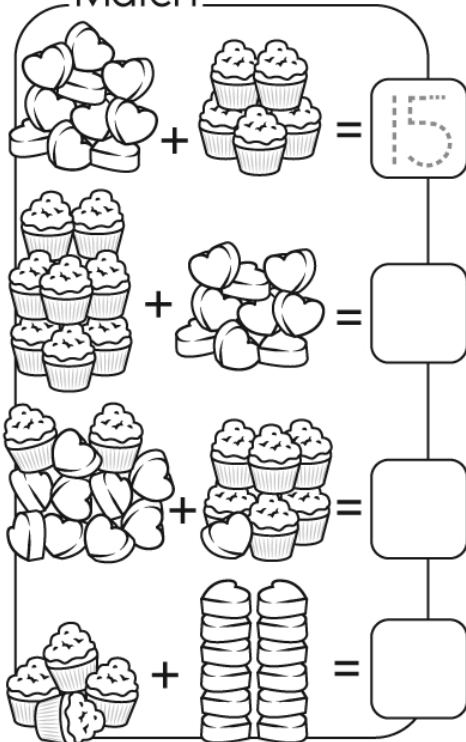
$11+7=$ ☐
$10+5=$ 15
$4+12=$ ☐
$8+9=$ ☐

Comparing Double Digits

Color it! > Fill in the symbols. <

37 > 25

46 ☐ 73

58 ☐ 19

61 ☐ 84
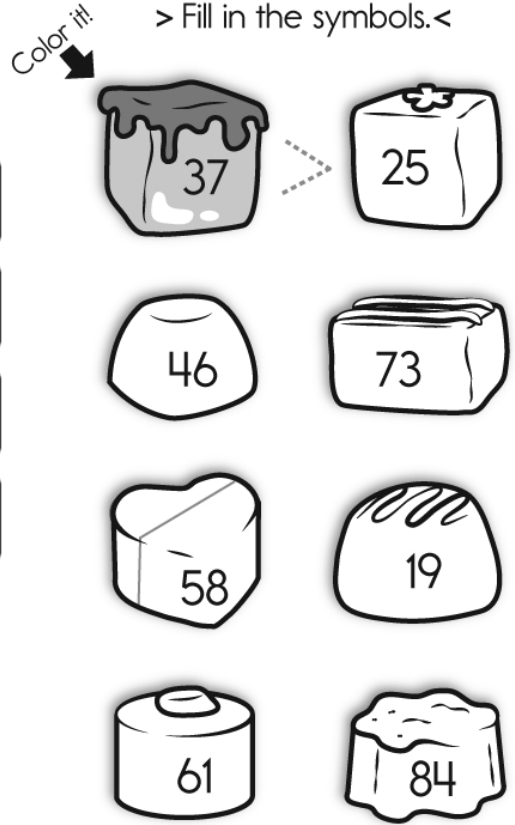
Name: _____

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?
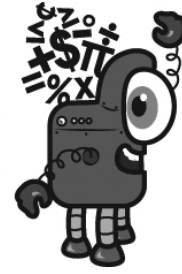
Mental Math 🤖 **= Do it in your head!**

imagine 8 in your head	imagine 7 in your head	imagine 2 in your head	imagine 7 in your head
double it	add 4	add 1	add 9
	add 3	add 6	subtract 2
Write the number.	Write the number.	Write the number.	Write the number.

___ ___
  A   B
	___ ___
	  C D
		___
		  E
			___ ___
			  F G

What is the sum?

A + B + C + D + E + F + G

___ ___

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

___ ___ ___ ___ _t_ ___ _-_ ___ ___ _x_

7 after 16 _____	7 before 19 _____	5 after 15 _____
9 after 11 _____	6 before 17 _____	8 after 12 _____
2 after 18 _____	5 before 11 _____	4 after 13 _____
3 after 19 _____	2 before 14 _____	6 after 14 _____

Name: _____

Jacob picked up 7 old cans. Peter picked up 5 old cans. How many more cans did Jacob pick up?

Megan has five red jellybeans. She has three green jellybeans. She has six yellow jellybeans. She has three black jellybeans. How many jellybeans does she have in all?

Molly saw 12 seagulls. Then she saw 17 more. How many seagulls did Molly see?

There were 10 green lizards in the tree. Half of the lizards ran away. How many lizards are still in the tree?

What is the sum of 5 + 3 + 2?

○ 8   ○ 13   ○ 11

○ 10

7 tens and 1 one

○ 1   ○ 71   ○ 17

8 + 9 = ☐   6 + 7 = ☐

What is the sum of 9 and 4?

○ 2   ○ 12   ○ 13

11 - 4

Write the words into the boxes.

had
she

1 + 8

Name: _____

Lucky Leprechaun counted fifteen gold coins inside his pot. He took eight from it and hid them in a tree. How many coins are left?

Subtraction Problem

Answer

Write the reversal of each equation. The first is done as an example. Then write the answer to each.

$5 + 11 =$ __11 + 5__ = __16__

$12 + 8 =$ _____ = ____
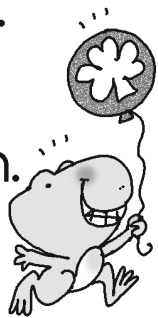
$9 + 6 =$ _____ = ____

$10 + 7 =$ _____ = ____

$13 + 4 =$ _____ = ____

$6 + 13 =$ _____ = ____

Write in numbers to make each problem correct.

$$12 + 3$$

$$\frac{-6}{5}$$

$$\frac{4 + \underline{}}{19}$$

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Name: _____

Fill in the blanks by adding the two numbers below each hexagon.

13
6 7

8 3

8
4

9
2

3 5

9 3

3 5

8
5

1 3
+ 4
_____

5, 7, 9, 11, _____, 15, 17

1 7
- 4
_____

word root **di** can mean **two**   **dilemma, diverge**

Name: _____

Cross off the letter that does NOT belong.

G, H, H, L, I, I, J, J, K, K, L
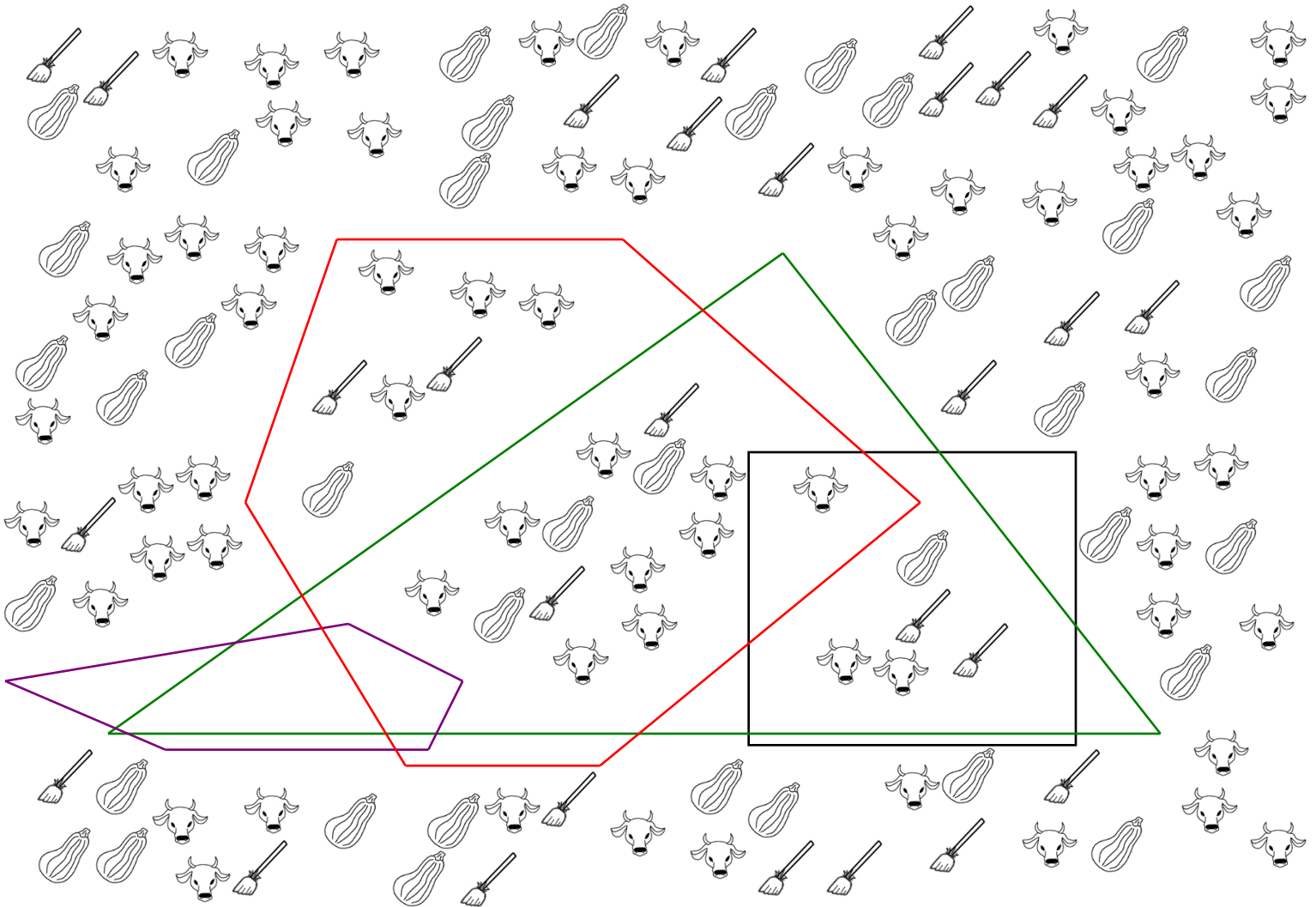
Why does _____ not belong in the pattern?

Cross off the letter or number that does NOT belong.

2, 2, u, 2, u, 2, u, 2, u, 2, u, 2, u, 2
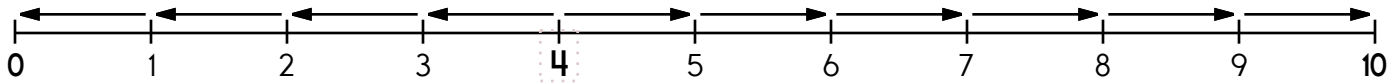
Why does _____ not belong in the pattern?

Name: _____

This picture is in the rectangle only once. Draw it: _____

How many 🐄 inside the rectangle? _____

How many 🐄 inside of any shape? _____

How many 🐄 or 🥒 in the triangle? _____

How many 🐄 in the triangle but not in the rectangle? _____

How many 🧹 in both the rectangle and triangle? _____

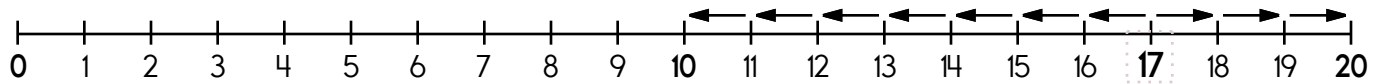How many 🧹 are not inside of any shapes? _____

Name: _____

0 1 2 3 **4** 5 6 7 8 9 10

4 is ___4___ spots away from 0.   4 - _____ = 0

4 is ___6___ spots away from 10.   4 + _____ = 10

4 is closer to 0 or 10

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 **17** 18 19 20

17 is _____ spots away from 10.   17 - _____ = 10

17 is _____ spots away from 20.   17 + _____ = 20

17 is closer to 10 or 20

0 1 2 3 4 **5** 6 7 8 9 10

5 is _____ spots away from 0.   5 - _____ = 0

5 is _____ spots away from 10.   5 + _____ = 10

5 is closer to 0 or 10

0 **1** 2 3 4 5 6 7 8 9 10
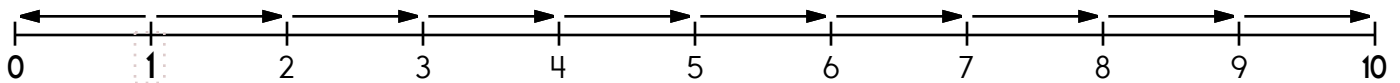
1 is _____ spot away from 0.   1 - _____ = 0

1 is _____ spots away from 10.   1 + _____ = 10

1 is closer to 0 or 10

Name: _____

```
├───┼───┼───┼───┼───┼───┼───┼───┼───┼───┤
0   1   2   3   4   5   6   7   8   9   10
```
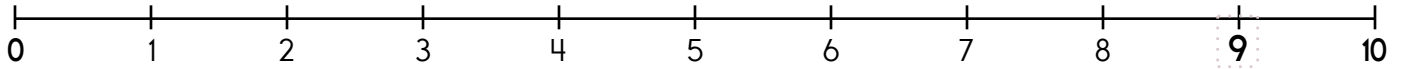
9 is __9__ spots away from 0.   9 - _____ = 0

9 is __1__ spot away from 10.   9 + _____ = 10

9 rounded to the nearest tens place is _____

```
├─┼─┼─┼─┼─┼─┼─┼─┼─┼─┼─┼─┼─┼─┼─┼─┼─┼─┼─┼─┤
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
```
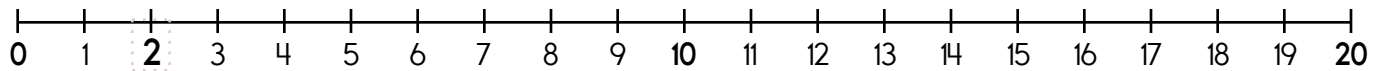
2 is _____ spots away from 0.   2 - _____ = 0

2 is _____ spots away from 10.   2 + _____ = 10

2 rounded to the nearest tens place is _____

```
├───┼───┼───┼───┼───┼───┼───┼───┼───┼───┤
0   1   2   3   4   5   6   7   8   9   10
```
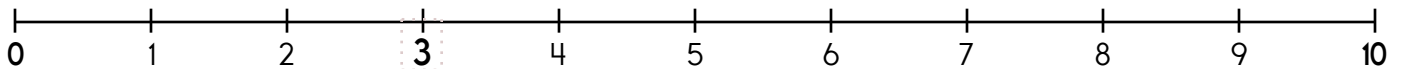
3 is _____ spots away from 0.   3 - _____ = 0

3 is _____ spots away from 10.   3 + _____ = 10

3 rounded to the nearest tens place is _____

```
├───┼───┼───┼───┼───┼───┼───┼───┼───┼───┤
0   1   2   3   4   5   6   7   8   9   10
```
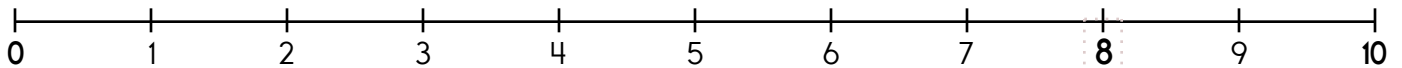
8 is _____ spots away from 0.   8 - _____ = 0

8 is _____ spots away from 10.   8 + _____ = 10

8 rounded to the nearest tens place is _____

Name: _____

Round to the nearest ten.
50 to 54 rounds down to 50.   55 to 60 rounds up to 60.

56 ➔ _____60_____   50 ➔ _____   54 ➔ _____

58 ➔ _____   51 ➔ _____   57 ➔ _____

60 ➔ _____   59 ➔ _____   53 ➔ _____

Round to the nearest ten.
40 to 44 rounds down to 40.   45 to 50 rounds up to 50.

50 ➔ _____50_____   40 ➔ _____   47 ➔ _____

48 ➔ _____   42 ➔ _____   45 ➔ _____

44 ➔ _____   46 ➔ _____   49 ➔ _____

Round to the nearest ten.
20 to 24 rounds down to 20.   25 to 30 rounds up to 30.

29 ➔ _____30_____   28 ➔ _____   22 ➔ _____

26 ➔ _____   20 ➔ _____   30 ➔ _____

24 ➔ _____   27 ➔ _____   26 ➔ _____

Round to the nearest ten.
30 to 34 rounds down to 30.   35 to 40 rounds up to 40.

33 ➔ _____30_____   37 ➔ _____   36 ➔ _____

31 ➔ _____   34 ➔ _____   40 ➔ _____

39 ➔ _____   38 ➔ _____   40 ➔ _____