| 28 | -6 | -12 | +42 | +51 | -1 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Name: |  |  |  |  | -13 |
| 11 |  |  |  |  | Challenge $\frac{\text { Math }}{\text { Book } 30}$ |  |
| -25 |  |  |  |  |  | -38 |
| +2 |  |  |  |  |  | +9 |
|  | Start on the square. Draw exactly 9 lines without picking up your pencil to connect all the circles. |  |  |  |  |  |
| -4 |  |  |  |  |  | -5 |
| -35 |  |  |  |  |  | -47 |
| -18 |  |  |  |  |  | +3 |
| +67 |  |  |  |  |  | +7 |
|  | -55 | +22 | -8 | -24 | +71 |  |

Name: $\qquad$
$5+3=$ $\qquad$
$1+4=$ $\qquad$
$9+2=$ $\qquad$
$3+8=$ $\qquad$
$4+7=$ $\qquad$
$8+8=$ $\qquad$

Spin fidget spinner. Quick!


How many times do you need to spin?

I needed to spin time(s) to finish the page.

I needed to spin $\qquad$ time(s) to finish.
$7+5=$
$6+9=$
$8+5=$
$8+7=$
$7+4=$ $\qquad$ $8+6=$ $\qquad$ $7+8=$ $\qquad$ $5+4=$ $6+3=$ $\qquad$ $2+2=$ $\qquad$
$7+3=$ $\qquad$
$8+3=$ $\qquad$
$3+8=$ $\qquad$ $6+5=$ $\qquad$ $5+6=$ $\qquad$
$8+5=$ $\qquad$

$8+5=$
$3+2=$
$7+6=$
$4+7=$
$5+8=$
$8+6=$
$3+7=$
$6+6=$ $\qquad$ $4+3=$ $\qquad$ $5+7=$ $\qquad$ $9+7=$ $\qquad$
$3+2=$ $\qquad$ $3+4=$ $\qquad$ $8+4=$ $\qquad$ $6+7=$ $\qquad$ $4+3=$ $\qquad$
$7+6=$ $\qquad$ $4+8=$ $\qquad$ $5+5=$ $\qquad$ $8+7=$ $\qquad$ $7+3=$ $\qquad$
$4+7=$ $\qquad$ $7+6=$ $\qquad$ $7+8=$ $\qquad$ $5+3=$ $\qquad$ $8+4=$ $\qquad$ $5+8=$ $\qquad$ $9+3=$ $\qquad$ $8+5=$ $\qquad$ $4+9=$ $\qquad$ $7+4=$ $\qquad$
$3+7=$ $\qquad$ $7+7=$ $\qquad$
$6+3=$ $\qquad$ $7+5=$ $\qquad$ $4+6=$ $\qquad$
$3+6=$ $\qquad$
$9+4=$ $\qquad$ $5+8=$ $\qquad$

Name: $\qquad$
$9+1=$
$6+4=$ $\qquad$
$7+1=$ $\qquad$
$3+9=$ $\qquad$
$8+5=$ $\qquad$
$4+5=$ $\qquad$

Spin fidget spinner. Quick!


How many times do you need to spin?
I needed to spin time(s) to finish the page.

I needed to spin $\qquad$ time(s) to finish.
$4+8=$
$4+6=$
$5+4=$
$3+6=$
$3+7=$
$9+5=$ $\qquad$ $4+4=$ $\qquad$ $7+3=$ $\qquad$ $3+6=$ $5+3=$ $\qquad$
$1+4=$ $\qquad$
$2+1=$ $\qquad$
$7+8=$ $\qquad$ $6+9=$ $\qquad$ $9+4=$ $\qquad$ $4+7=$ $\qquad$ $6+3=\quad 7+9=$ $\qquad$ $9+8=$ $\qquad$ $8+4=$ $\qquad$
$4+9=$ $\qquad$ $5+8=$ $\qquad$ $6+4=$ $\qquad$ $3+7=$ $\qquad$
$3+5=$ $\qquad$ $5+7=$ $\qquad$ $9+4=$ $\qquad$
$9+9=$ $\qquad$
$6+7=$ $\qquad$
$7+4=$

$7+4=$
$8+9=$
$3+8=$ $\qquad$ $5+4=$ $\qquad$ $9+4=$ $\qquad$
$\qquad$
$7+5=$ $\qquad$ $4+6=$ $\qquad$ $7+6=$ $\qquad$ $5+7=$ $\qquad$
$8+4=$ $\qquad$ $7+5=$ $\qquad$ $4+3=$ $\qquad$ $5+7=$ $\qquad$ $4+7=$ $\qquad$
$7+9=$ $\qquad$ $6+9=$ $\qquad$ $3+4=$ $\qquad$ $4+8=$ $\qquad$ $6+5=$ $\qquad$
$4+3=$ $\qquad$ $6+7=$ $\qquad$ $3+3=$ $\qquad$ $9+6=$ $\qquad$ $5+6=$ $\qquad$
$\square$
Name: $\qquad$
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 .


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

$$
1432
$$

| 2 | 3 | 4 | 1 |
| :--- | :--- | :--- | :--- |
| 4 |  |  | 3 |
|  | 3 |  | 1 |
| 4 | 1 | 2 | 3 |

Hint - These numbers are missing:

## 2214



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

$$
1432
$$



Hint - These numbers are missing:

$$
2343
$$

$\square$

Name: $\qquad$
Fill in the missing numbers.
Only rule - The same number CAN NOT be next to each other, in ANY direction.


Hint - These numbers are missing:

$$
\begin{array}{lllll}
4 & 4 & 2 & 1 & 1
\end{array}
$$



Hint - These numbers are missing:

$$
133244
$$



Hint - These numbers are missing:

$$
\begin{array}{lllll}
4 & 1 & 3 & 2 & 3
\end{array}
$$



Hint - These numbers are missing:

$$
\begin{array}{llllll}
2 & 2 & 1 & 3 & 4 & 4
\end{array}
$$

How many nickels do you need if you want to have exactly 30 cents?


$$
23-\ldots=13
$$

$\qquad$

Emma was so happy to be at her favorite store, Tacky Toys. The only thing more fun than the toys at Tacky Toys is the money you have to use. They use Tacky tokens that come in values of 9 cents, 4 cents, and 11 cents. Emma's mom gave her three of each type of token. She now has three 9-cent, three 4-cent, and three 11-cent Tacky tokens. How much money does she have?
"Don't forget," said Mom, "you have to use exact change. That means if you want something for 33 cents, you can't give the cashier 35 or 37 cents. It HAS to be 33 cents."
It just so happens that Emma does want a toy. Surprised, huh? The toy costs 28 cents. What a bargain! Of course, it is in Tacky tokens. How should she pay for this using the Tacky tokens she has?

Mr. Brown, our mailman, brought us three letters Monday. On Tuesday he brought us one letter and two packages. On Wednesday he brought us three letters. On Thursday he brought us one package. On Friday he brought us six letters. On Saturday he brought us five letters. How many letters in all did Mr. Brown bring us this week?

In 2001 the fourth graders at Mountain Springs Elementary School planted 15 maple trees around their school. When their leaves changed to crimson this fall, a new group of fourth graders planted some elm trees. How many years was it from the time the maple trees were planted to the time the elm trees were planted?
double 200

Justin reads to his brother every night. Last night he read 16 pages. Tonight he read 19 pages. How many pages has he read to his brother in the last two nights?

What number multiplied by six is forty-eight?

Write this number:
4 ones, 5 tens, 7 hundreds

Adam made chocolate chip cookies for the Halloween Carnival. To make a dozen cookies, he used four tablespoons of butter. How many tablespoons of butter did he use to make five dozen cookies?

How many hours are there from 8 a.m. to 9 p.m.?

There are 19 children in Mr. Moore's class. Nine of them wear glasses. What fraction of the children wear glasses?



$\square$
Name: $\qquad$

$\square$
Name: $\qquad$
Fill in the blanks by adding the two numbers below each hexagon.




Rewrite the sentence correctly.
I eated a snak after school.

$\square$
Name: $\qquad$
Mental break. Time to use a pencil for this more challenging page. Good luck! This puzzle has a large number in the middle, which is the sum of the four numbers that surround it.

Example:
Example:

$$
6+4+8-1=17
$$

$$
5+2+8-3=12
$$




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: $-1,-2$, or -3 .
The other three numbers have to all be DIFFERENT and must be from these: $1,2,3$, $4,5,6,7,8$, or 9 .

$\square$

## Name:

$\qquad$
Complete each path from the beginning of the rainbow to the end. You can move in any direction-vertically, horizontally, or diagonally. You must skip over one square and land on the next. You cannot land on squares with odd numbers.

| START | 13 | 2 | 11 | 48 | 9 | 6 | 7 | 22 | 27 | 14 | 15 | 46 | 33 | END |
| :---: | :---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | :---: | :---: |
| 35 | 50 | 25 | 72 | 23 | 96 | 19 | 52 | 17 | 43 | 90 | 41 | 84 | 39 | 86 |
| 18 | 37 | 4 | 83 | 1 | 70 | 10 | 77 | 24 | 79 | 8 | 75 | 16 | 82 | 5 |
| 87 | 68 | 91 | 94 | 89 | 93 | 73 | 59 | 95 | 58 | 57 | 74 | 81 | 55 | 60 |
| 44 | 85 | 28 | 114 | 12 | 99 | 20 | 97 | 26 | 111 | 30 | 61 | 32 | 53 | 3 |
| 98 | 110 | 115 | 113 | 103 |  | 51 |  | 49 | 80 | 65 | 45 | 63 | 62 | 78 |
| 47 | 109 | 36 | 116 | 42 | 112 | 34 | 105 | 38 | 71 | 29 | 69 | 40 | 67 | 21 |
| 100 | 54 | 108 | 107 | 106 | 56 | 66 | 104 | 88 | 102 | 31 | 64 | 101 | 76 | 92 |



Name: $\qquad$
Ready to make equations? There is a missing equation in each box.
Circle the numbers once you find it!


Find a subtraction fact.

B | 3 | 49 | 71 |
| ---: | ---: | ---: |
| 79 | 90 | 57 |
| 69 | 87 | 42 |

Find a subtraction fact.
$\left.-\begin{array}{ccc}27 & 39 & 58 \\ 46 & 41 & 90 \\ 45 & 92 & 5\end{array}\right]$

Find a subtraction fact.

Equations:
Write the equation facts you found.

|  | A | 68 | - | 38 | $=$ |
| :--- | :--- | :--- | :--- | :--- | :--- |
| B |  | - |  | $=$ | 30 |
|  |  |  |  |  |  |
|  |  | - |  | $=$ |  |
|  |  |  |  |  |  |

Fill in the numbers.


Name: $\qquad$
Bill brought 81 cookies to share with everyone in his class. That sounds like a lot, but they are mini cookies. Each cookie is only 1 inch in diameter!
They are oatmeal cookies, his favorite. Would you believe everyone in his class likes oatmeal cookies?
"I don't," interrupted Sally.
Okay, everyone likes then except for Sally. She doesn't like anything sweet. Bill wants everyone to get the same number of cookies. There are 14 kids in his class, including himself.
"Did you forget anyone else?" Miss Smith laughed. She is a cookie monster, so Bill wants to include her, too.
Quick! Everyone is hungry. How many cookies will everyone get? Don't forget to skip Sally!
Follow up: How many cookies are left and could not be shared evenly?

Show your work.

Name:
Cross off the letter that does NOT belong.
O, E, N, D, M, C, L, B, F, K, A
$\qquad$ not belong in the pattern?

Cross off the number that does NOT belong.

$$
21,21,25,26,30,29,31,33,36,37,41,41,46,45
$$

## Name:

Boy, was Jacob grouchy! His teacher told him to read every night. He didn't want to read. He wanted to ride his bike. The first night he only read 7 pages. The second night he read 13 pages. Maybe the book wasn't so bad, after all. The third night he read 31 pages. Wow, was this an exciting book! How many pages did he read in all?

Justin loved puzzles. He had twenty-three puzzles of his own. He got two new puzzles for his birthday. One puzzle was a picture of a dog. It had fifty-five pieces. The other puzzle was a picture of a bright red car. It has one hundred thirty-seven pieces. How many more pieces did the car puzzle have than the dog puzzle?
double 600

Fay, Jay, Kay, May, and Ray are monkeys. They think their names are too much alike. They went to the monkey name store and bought new names. They paid 3 quarters, 4 dimes, and 19 pennies for the names. How much did their new names cost?

If you know $81+18=99$
Then what is $81+15$ ?


Peter's grandfather likes to watch birds. Yesterday he watched the birds at the feeders for just 6 minutes and counted 30 birds! About how many birds did he count each minute?

| $74-9=\ldots$ | Add one hundred to 625. | $21+\square$ <br>  <br>  <br> $22+\square=34$ |
| :---: | :--- | :--- |

$\square$
Name: $\qquad$
Complete each pattern.

$$
\begin{aligned}
& \text { R, 9, 9, _ , — 9, R, 9, 9, R, 9, 9, R } \\
& \text { I, I, 5, I, _, _ I, I, 5, I, I, } 5
\end{aligned}
$$

Find the missing numbers. These both have the same rule. What is the rule? If
$1,12=13$
$6,9=15$
$2,16=18$
$7,13=20$
$3,19=22$
$8,15=23$
$4,22=26$
Then
$5,24=?$
$9,18=27$
Then
$10,21=$ ?
$\square$
$\qquad$

| 2 | Puzzle: |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 2 | 2 | 17 |  |  |
| 18 | 28 | 25 | 21 | 4 |


| Work Area: |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| 2 |  | 2 |  | 17 |
|  |  |  |  | 29 |
|  |  |  |  | 26 |
|  | 2 |  |  | 20 |
| 18 | 28 | 25 | 21 | + |

The sum for each column and row is given.


Work Area:

|  |  |  |  | 22 |
| :--- | :--- | :--- | :--- | :--- |
|  |  |  |  | 28 |
|  |  |  |  | 23 |
|  |  |  |  | 26 |
| 27 | 28 | 22 | 22 | 4 |

The sum for each column and row is given.


家象
$\square^{\circ}=$
$Q=$

Name:
Mr. Garcia is in the Coast Guard. He goes to work at half past six. Write that time another way.

Connor bought 24 fritters. Fritters come in packages of 4 . How many packs of fritters did he buy?

Can you name the mystery three-digit number?
One of the digits is 6 .
If you multiply the first and the last digits, the product is 12 .
The second digit is 2 more than the first digit.
If you add the first and the second digits, the sum is 10 .

Emily is putting together goodie bags for her birthday party. She invited 8 friends, and everyone can come except for Jessica. At the party store, she bought 12 temporary tattoos. She wants to give everyone an equal number of temporary tattoos. How many should she put into each goodie bag?

Write a word that means the same as beaming.

Name: $\qquad$

Emily just turned 14. She's old. But her mom is MUCH older. How old?
Well, if you add Emily and her mom's ages, the sum is 55.
How old is Emily's mom?

Sarah works at the company that makes squishies. All squishies with green eyes have red noses. All squishies with purple hair have big eyes. Some squishies with red noses have orange ears. All squishies with blue mouths have orange hair. Those squishies with red noses have purple hair.
David collects squishies and just bought a squishy from Sarah's company. It has green eyes. What else must it have?

In twenty minutes the time will be 8 minutes after 7 o'clock.
What time is it now?

Name:
Jenna is playing a game against Pam. In the game you collect gold coins. You can also get hearts. Every heart is exchanged for 2 gold coins at the end of the game. Jenna got 200 gold coins and 18 hearts. Pam got 45 gold coins and 90 hearts. Who won?

$64,70,76,82$, ___ 94, 100, 106
Write the correct plural possessive form
of the noun.
general's soldiers
$\square$
Name:
If you add 4 of these numbers, the total is 22.
"But there are 6 numbers," interrupts Jacob.
"Exactly," replies Emily. "We need to figure out which 2 numbers to cross off."
Emily is almost correct. Actually, YOU need to cross off the 2 numbers. Good luck.
4
5
2
9
3
8
double 60


## double 700



If you know $73+29=102$ Then what is $73+28$ ?

Name: $\qquad$

Get a fidget spinner! Spin it.
I needed to spin $\qquad$ time (s) to finish.


## How much is this?



A two-digit odd number has a 7 in the tens place. The sum of the ones and tens digits is 8 . What is the number?

Amanda has seven tickets to the middle school play. She gave Megan a ticket. She gave three tickets to Sara. How many tickets does Amanda have left?
$\mathrm{D}, \mathrm{H}, \longrightarrow \mathrm{P}, \mathrm{T}, \mathrm{X}$
on the playground. Four of them came inside to read. How many kids are still on the playground?

E, G, G, J, I, M,

$$
\longrightarrow P, M, S
$$

Write this number:
2 tens, 3 hundreds, 9
thousands

Name:


Spin again.


Ava took her empty backpack and filled it with tennis balls. Estimate how many tennis balls you think she was able to fit into her backpack.

How many?
Draw 8 small squares.
Then color in some to show $\frac{1}{2}$.
Write this number:
9 ones, 2 hundreds, 6 tens,
3 thousands

I needed to spin ___ time(s) to finish.


5 less than 365

$\square$
$\square$
Name: $\qquad$

Can you win at bingo? Color in a circle red if it is on the bingo board. Then color in the square on the bingo board red. Cross off a circle if you do not see it on the bingo board. Keep going until you win! Win by getting three across, down, or diagonal.


BINGO BOARD:

| 120 | 108 | 33 |
| :---: | :---: | :---: |
| 99 | 81 | 21 |
| 60 | 36 | 110 |

$7 \times 6$



$$
\begin{aligned}
& 10 \times 10=3 \times 11=0 \times 11=4 \times 5=8 \times 3= \\
& 12 \times 9=7 \times 6=6 \times 7=1 \times 12=8 \times 4=
\end{aligned}
$$

Name:

Squeaky Squirrel played all summer. He didn't gather nuts for the winter. When his grandfather, old Samuel Squirrel told him to quit playing, Squeaky said, "I have plenty of time. I'll gather nuts later." Then one day it snowed. There was no more time to gather nuts. Squeaky had only 174 nuts to last all winter! His grandfather had 400 nuts in his storehouse. How many more nuts did Samuel have than Squeaky?

At 8:00 a.m. Mr. Miller started packing quarts of milk in crates. By 9:00 a.m., he had packed 84 quarts. He took a break from 9:00 a.m. to 9:30 a.m. From 9:30 a.m. to 10:30 a.m., he packed 85 quarts. How many quarts of milk did he pack from 8:00 a.m. to 10:30 a.m.?

Write this number:
3 ones, 2 tens
$6+3-5+4+3$
$7-6+6-3$

Jessica made 33 cards. Holly made 48 cards. How many more cards did Holly make than Jessica?

Kevin found 85 seashells on Monday. He found 91 seashells on Tuesday. He found 84 seashells on Wednesday. On which day did he find the closest to 89 seashells?

3 more than 573

Ava bought some corn. She spent 5 quarters, 4 dimes, and 6 pennies. How much did the corn cost?

