| 58 | -9 | +21 | -4 | -29 | -1 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Name: |  |  |  |  | +2 |
| 12 <br> -2 |  |  |  |  | Book 25 | -5 |
| -8 | Fill in the missing numbers. How? The sum of the four surrounding numbers is in the center of each square <br> Exactly one of the four numbers has to be one of these numbers: 23.8, 17.9, or 22.1. <br> The other three numbers have to all be DIFFERENT and must be from these: 7.7, 5.9, 9.7, 1.5, 2.9, 3.4, or 6.1. |  |  |  |  | +7 |
| -5 |  |  |  |  |  | -8 |
| -56 |  |  |  |  |  | -16 |
| -1 |  |  |  |  |  | + |
| +37 |  |  |  |  |  | -14 |
|  | +26 | -3 | -6 | +12 | -3 |  |

Name: $\qquad$

Get a fidget spinner! Spin it. I needed to spin $\qquad$ time (s) to finish.
$65,78,91,104,117,130$, —— 156

Name the shape with seven sides and seven angles.

How many total legs are on 13 ants?
$12 \times 3=$
What number is halfway
between 17 and 21 ?
$(8-3)+4$
A book has 5 pages. Each page has 12 dimes. How many dimes in the book?

Find the product of 7 and 4.
$\square$
Name: $\qquad$
Ready to make equations? There is a missing equation in each box.
Circle the numbers once you find it!

| $\begin{array}{l\|lll} \mathrm{A} & \begin{array}{lll} 44 & 95 & 93 \\ + & 99 & 87 \\ \hline & 68 \\ 23 & 27 & 36 \end{array} \end{array}$ | 92 16 91  <br> + 65 85 51 <br> 22 63 84  |  |
| :---: | :---: | :---: |
| Find an addition fact. | Find an addition fact. | Find an addition |

## Equations:

Write the equation facts you found.

| A | + |  | $=$ | 95 |
| :---: | :---: | :---: | :---: | :---: |
| B | + |  | $=$ | 85 |
| C | + | 24 | $=$ |  |


| $7 \times 9=$ | $\begin{array}{r} 90 \\ -\quad 40 \\ \hline \end{array}$ | The principal of your school wants to buy fifty-three books. Each book costs $\$ 13.70$. She wants to estimate how much it will cost. Show her how you would estimate the cost: |
| :---: | :---: | :---: |
| $63 \div 9=$ |  |  |

How many digits are in the current year?

Circle the word that best completes the sentence.
I am going to the speech competition this weekend, and I hope that you can come, (to/too).

Name: $\qquad$


$$
2 \frac{1}{4}+8 \frac{3}{4}
$$

180,
$\qquad$ . 200, 210, 220,

230

Round 8,506 to the nearest thousand.
$180, \ldots \ldots, 200,210,220$,
230

Round 98,588 to the nearest hundred.
$8,10,12,14,16,18,20$,
$\qquad$ , 24,26
Know how many inches in a foot? Okay, smarty pants, how many inches in 4 feet?
Round 8,506 to the nearest
thousand.

Name: $\qquad$

| + |  |  | 35 | 88 |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 93 | $93+$ | $\begin{array}{r} 124 \\ 93+ \end{array}$ | $\underline{93}+\underline{35}$ | $\begin{gathered} 181 \\ \underline{93}+\underline{88} \end{gathered}$ | $93+$ |
| 53 | $\begin{array}{r} 93 \\ \underline{53}+ \end{array}$ | $\underline{53}+$ | $\underline{53}+\underline{35}$ | $\begin{gathered} 141 \\ \underline{53}+\underline{88} \end{gathered}$ | $\begin{gathered} 127 \\ \underline{53}+ \end{gathered}$ |
|  | + | $62$ | $\begin{array}{r} 66 \\ + \\ +35 \\ \hline \end{array}$ | $\underline{+88}$ | $]^{+}$ |
|  | $95$ | ${ }^{+}$ | $\underline{+35}$ | $\underline{+88}$ | + |
|  | $\underline{+}$ | $\underline{+}$ | $\begin{gathered} 67 \\ +\quad+35 \\ \hline \end{gathered}$ | $\underline{+88}$ | $106$ |


$\square$
Name: $\qquad$
Guess the number in your head. Keep guessing until your numbers are correct.
Then write the correct answer!

3 before 18

$\qquad$
2 after 14 $\qquad$ 8 after 13 $\qquad$
2 before 19 $\qquad$
9 after 18 $\qquad$
3 after 11 $\qquad$
7 before 17 $\qquad$
7 after 15 $\qquad$
6 after 17 $\qquad$
5 before 13 $\qquad$
4 after 16 $\qquad$
5 after 12 $\qquad$
6 before 12 $\qquad$
1 after 19 $\qquad$ 6 after 19 $\qquad$
1 before 94 $\qquad$ 4 after 37 $\qquad$ 2 after 53 $\qquad$
4 before 87 $\qquad$ 8 after 55 $\qquad$ 7 after 43 $\qquad$
9 before 27 $\qquad$
3 after 57 $\qquad$
9 after 36 $\qquad$
8 before 69 $\qquad$
1 after 62 $\qquad$
5 after 28 $\qquad$
$\square$
Name: $\qquad$
Make change. You can use $\$ 20, \$ 10, \$ 5, \$ 1,25 \llbracket, 10 \llbracket, 5 \llbracket$, or $1 \mathbb{1}$.

Use the fewest bills and coins to make $\$ 25.12$.




Use the fewest bills and coins to make $\$ 55.38$.

Use the fewest bills and coins to make $\$ 44.42$.

Use the fewest bills and coins to make $\$ 14.34$.
$\square$
Name: $\qquad$
Fill in each box of the edHelperKu puzzle, using the numbers from 1 to 4 .
Every row must contain the numbers $1,2,3$, and 4 .
Every column must contain the numbers $1,2,3$, and 4.
In a cage with a plus sign, the given number will be the sum of all the digits in the cage.


Fill in the blanks. These equations are from the puzzle above.
$1+$ $\qquad$ $+$ $\qquad$ $=8$ $\qquad$
$\qquad$ +1 + $\qquad$ $+$ $\qquad$ $=12$

$$
1+\ldots=3
$$

__ $+$ $+4+$ $\qquad$ $=10$

Name:
Robot was given a math problem to solve.

## Amanda listened to her jazz CD for 22 minutes. Then she listened to a rock CD. She listened to music for an hour. How long did she listen to the rock CD?



Robot wrote this program in Python to solve it.

\# Define the variables<br>jazz_duration $=22$<br>total_duration = 60 \# in minutes

\# Calculate the duration Amanda listened to rock music rock_duration = total_duration - jazz_duration
print("Amanda listened to the rock CD for", rock_duration, "minutes.")
Robot's program will print the answer to the math problem.
What will the program print out?

## Hints and Questions

After Robot's program is done, the variable jazz_duration will have a value in it. What value does it have?

When Robot wants to help explain something in the program, Robot starts a line with \# and a space. This is called a comment. How many comments are in Robot's program?

Name: $\qquad$
Robot wrote this program to solve a math problem.
\# assign the miles driven to various events
miles_to_theater $=23$

miles_to_uncle = 7
miles_to_home $=17$
\# calculate total miles driven
total_miles = miles_to_theater + miles_to_uncle + miles_to_home
print("Total miles driven:", total_miles)
What will the program print out?

Wait! Robot forgot to write down the math problem.
Can you write your own word problem to explain Robot's computer code?

Name: $\qquad$
February is a great time to make boxes of chocolate. Just ask Justine the baker. "Yeah, ask me!"
...
"Um. I'm waiting. I make the best boxes of chocolate in town. Today I sold over 64 boxes! February is just perfect for chocolate."
When Justine is not bragging, she is baking. Today, she made... "Wait! Wait! Let me tell them! I made 1,290 pieces of chocolate. I put them into boxes, and I had no chocolate left over. Wow, huh?"
Justine always puts the same number of chocolates into all of her chocolate boxes. "I'll give you a hint. It's a 2-digit number and a multiple of 3."
How many chocolates does she put into each box?

Show your work.

Name: $\qquad$
"Want to visit my farm?" asked Peter. "It's just me, my mom, my dad, my 2 sisters, my 12 spiders, my 2 chickens, and, last but not least, my 6 horses."
"Yuck, did you say 12 spiders? Seriously?" asked Anna.
"Yes, I did! Just answer the following math question. I didn't say these math questions make sense," said Peter with a big smile.
How many legs are there where Peter lives? If it helps, humans have 2 legs (duh!), spiders have 8, and you can figure out the rest!

Unscramble these letters to spell a two-digit number with two different digits.

## fteinys-fve

ivix-tsyef

Name:


5 and 7 are $\qquad$ numbers.


Skill: Basics of Fractions and Mixed Numbers


Use paper and pencil to answer.
The sum of 255 and 372 is $\qquad$ .

The fraction $\frac{3}{7}$ has a $\qquad$ of 3.


Skill: Fractions and Decimals
What is the value of the 4 in 82.34 ?
four hundredths

four tenths

Skill: Decimals


In 5,739 , what does the digit 3 stand for?


Name:
$\square$

Secret Mission: You have been hired to develop and evaluate robots' math skills. Sometimes, they give thorough, correct explanations. However, they occasionally go haywire.

## Robot Rob was given a math problem to solve.

David and Hannah are doing their math homework. Their teacher gave them each 19 pages of math facts to practice. Each page has 7 rows and 6 columns of problems. David can do a row of problems in about 5.5 seconds. Hannah is faster. She can do a row of problems in 4.8 seconds. How much time will David need to finish his math homework?

## Robot Rob thinks this might be the answer:



David has 19 pages times 7 rows = ( 19 times $7=133$ ) 133 rows.
David will need 133 rows times 5.5 seconds $=(133$ times $5.5=731.5$ ) 731.5 seconds.
David will need about 731.5 to do his homework. Answer: 731.5.

Robot Rob did not explain too much. How do you think Robot Rob could have shown his work better?

# He is not sure that is correct, so he asked Robot Rita for help. This is how she tries to solve the problem. 



First, we figure out the total number of problems by multiplying the number of rows by the number of columns. So, 7 rows times 6 columns $=42$ problems per page.

Then, since David and Hannah each have 19 pages of problems, we multiply the number of problems per page by the number of pages to find the total number of rows of problems. So, 42 problems/page times 19 pages $=798$ rows of problems.

Finally, we figure out how much time David will need to solve the entire homework by multiplying how long he takes per row of problems by the total number of rows of problems. Therefore, 5.5 seconds/row times 798 rows $=4389$ seconds.

If you were the teacher, how would you grade Robot Rita's work? Explain and also make comments in Robot Rita's work.

Hint: EdHelper's answer pages gave this answer.
David can finish one page in 38.5 seconds. So it will take him 731.5 seconds to do 19 pages.

Name:
Now that you have seen edHelper's answer and how Robot Rob and Robot Rita tried to solve this problem, how would you solve it? Show your steps and explain.

David and Hannah are doing their math homework. Their teacher gave them each 19 pages of math facts to practice. Each page has 7 rows and 6 columns of problems. David can do a row of problems in about 5.5 seconds. Hannah is faster. She can do a row of problems in 4.8 seconds.
How much time will David need to finish his math homework?

Name: $\qquad$
Now it's your turn. You've seen how the robots tried to solve this problem, and you corrected their work. Now you try doing it!

Jack and Emily are doing their math homework. Their teacher gave them each 16 pages of math facts to practice. Each page has 8 rows and 6 columns of problems. Jack can do a row of problems in about 8.5 seconds. Emily is faster. She can do a row of problems in 7.7 seconds.

How much time will Jack need to finish his math homework?

Name: $\qquad$

Mrs. Ragnar's class is having a Valentine's Day Party. Each child must bring a valentine for every other child in the class. There are 28 children in the class.
Mason wanted to make sure that he would have enough valentines for everyone in the class even if he accidentally dropped two in someone's box by mistake, so he brought 32 cards to class. His valentines cost $\$ 0.68$ each. How much more did Mason spend on valentines than Mia, who brought the same cards as Mason, but only brought enough valentines for everyone else in the class?

A version of Black History Month was first celebrated in the United States in 1926. Canada first began to recognize February as Black History Month in 1979. The United Kingdom first celebrated Black History Month in 1987.
How many years ago was Black History Month first celebrated in the United States?

Ava and Liam are both enjoying Mardi Gras celebrations with their families in New Orleans. Ava is going to a total of three parades whose routes are, respectively, 3.2 miles, 4.8 miles, and 2.6 miles. Liam is going to four parades whose routes are, respectively, 3.2 miles, 2.1 miles, 1.4 miles, and 3.1 miles.
How many more miles of parade is Ava going to see than Liam?

Name: $\qquad$
The fifth-grade class had an election. They have a large class of $\mathbb{1 4}$ boys and 16 girls. Every kid in the class voted.
The person with the most votes will become the calendar helper. The one with the second to most votes will be the paper collector. The lucky one with the third most votes will become the trash monitor.
Robert got 20\% of the vote.
For every 3 voters, Sarah received 1 vote.
For every 6 voters, Jack received 1 vote.
Emily received three-tenths of the vote.
Who has what job?

Please show how you found your answer.

Name: $\qquad$


Sketti. a right angle named $\angle$

How many centimeters in 7.4 meters?

Sketch an acute angle named $\angle B C D$.

How much time is it from 8:00 a.m. to 11:50 a.m.?

An angle measures $161^{\circ}$.
What would you call this angle?

It was 79 degrees outside. What would the temperature be if it got 29 degrees colder?

Circle the correctly spelled word.
My puppy is adorable, but she is also quite (naughty/notty).

Name: $\qquad$

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

$$
4 \frac{5}{7}+3 \frac{3}{7}+8+12 \quad 8+4 \frac{5}{7}+9 \frac{1}{7}+5 \frac{6}{7}
$$



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: $5 \frac{6}{7}, 6 \frac{6}{7}$, or $3 \frac{3}{7}$. The other three numbers have to all be DIFFERENT and must be from these: $4 \frac{5}{7}, 12,9 \frac{1}{7}$, or 8 .

$\square$

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: $7 \frac{2}{3}, 2 \frac{2}{3}$, or $8 \frac{1}{3}$.
The other three numbers have to all be DIFFERENT and must be from these: $\frac{2}{3}$, 11,9 , or $1 \frac{1}{3}$.


Name:

Amy and Kevin like to ride their electric scooters on the weekend.

Amy rode a total of 110 miles this weekend, and her average speed was 22 miles per hour.

Kevin rode a total of 240 miles this weekend, and his average speed was 30 miles per hour.

Which rider rode for the longest amount of time?

Who is the youngest?
Emily turned 7 years old in 2018.
Erin will be 24 years old in 2034.
Rosa turned 12 years old in 2020.

Which fraction is larger?

$$
\begin{aligned}
& \frac{9}{14} \text { or } \frac{1}{2} \\
& \frac{1}{4} \text { or } \frac{1}{14} \\
& \frac{5}{6} \text { or } \frac{1}{3}
\end{aligned}
$$

Hannah and two of her friends are playing a game where they can spend HBucks to buy extra lives and potions. Who spent the most HBucks?
To purchase 2 extra lives costs 5 HBucks.
To purchase 6 potions costs 2 HBucks.
Hannah bought 8 extra lives.
Rose bought 6 extra lives and 12 potions.

Wendy bought 2 extra lives and 6 potions.
$\square$
Name: $\qquad$
Draw a line from START to END.

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


Name:

Jason liked to go to the library in Martinsburg. He thought it was amazing to have so many books in one place. The librarian told him that 2,342 books had been added to the library this year. Now the library had a total of 159,868 books! How many books did the library have last year?

Kevin was curious about everything, especially measurements. He liked to know how much water a glass would hold, how much air a balloon would hold, and how much pudding a bowl would hold. He even wanted to know how much batter his mother's cake pan would hold! The cake pan is fourteen inches long, eight inches wide, and 2.5 inches deep. What is the volume of the cake pan?

One package of safety pins has 24 safety pins in it. How many safety pins are in 3 packages? Write an equation and solve the problem.

Anna wanted to make a chart illustrating the effects of static electricity. She used a sheet of poster board that was 40 inches wide and 48 inches long. She divided the poster board into eight equal sections. What was the area of each section?

The fifth grade class surveyed 162 people. They found that $\frac{1}{3}$ of the people have umbrellas. Of the people who have umbrellas, $\frac{1}{2}$ have black umbrellas. How many people in the survey group have black umbrellas?

Name:
When you divide 76 by 8 , you will get a quotient of 9 with a remainder of 4 .

How many other different remainders can you get if you divide other whole numbers by 8 ? Give an example of each.


If this pattern continues, color how these squares would look:


It has been an intense softball season. Erin, Wendy, and Emily are friends, but they all are on different teams in the league. Erin's team has won 7 games and lost 11 games. Wendy's team has won 8 games and lost 10 games. Emily's team has won 11 games and lost 7 games.

Which team has the best record?
$\square$
Name:
$18+\frac{5}{8}-\frac{1}{9}=$

$18+\frac{2}{9}+\frac{1}{3}=$

$94-\frac{1}{10}=$

Reduce $\frac{4}{34}$ to its lowest terms.

Find the least common denominator.
$\frac{16}{36}, \frac{20}{63}$ and $\frac{16}{27}$


What is the least common multiple of 6 and 10 ?

Name: $\qquad$

Paul's axe was getting old and was not culting very well. He paid \$9,321.74 for a new one. (Such big axes are very expensive!) He paid for the axe with $94 \$ 100$-bills. How much change did he get?

Jason is painting two stripes on the sleeves of his white $t$-shirt. He can use red, blue, yellow, or purple paint. How many different ways can he paint the stripes if the order is important?

The director asked the cameraman for a close-up of the actress done from a $60^{\circ}$ angle to show deep shadows. What is the measure of an angle that is supplementary to the $60^{\circ}$ angle?

Name: $\qquad$
Draw ONE continuous line that touches every box ONCE.
Count by 11s. Find the box with the number 63. Move up, down, right, or left. Keep counting until you reach 877. Do not move into a spot with a picture.

|  |  |  |  | -470 | ! |  |  | $\bigcirc$ | Sis |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 |  |  | -- | - - - | - - |  |  | 635- | - |
| $382$ |  |  |  |  |  |  |  | - - |  |
|  | 360 |  |  |  |  | 50 | $\cdots$ | $\operatorname{lin}^{3}$ |  |
| 1 | 877 | - - |  | -- |  | 800 |  | 4 | 1 |
| ! | 74- | -63 |  | 151 1 | 184 |  |  | $4$ | 1 |
| $!$ | , | (曹iŋ |  | 1 |  |  |  | $\stackrel{\square}{\circ}$ |  |
|  | - | - 107 |  | 239 |  |  | -- | - - |  |
|  |  |  |  |  | \%年 | $\square$ |  |  |  |

$$
\text { Write } 5,510 \text { in words. }
$$

$$
\begin{aligned}
& 1 \mathrm{~kg}=1,000 \mathrm{~g} \\
& 22 \mathrm{~kg}=\square
\end{aligned}
$$

In the number 297,851,619, the digit 7 is in what place?
$15 \mathrm{~cm}=$ $\qquad$ mm
$10 \times 8=$
Write an equation to represent this:
The product of four and six is twenty-four.

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