Name:
Cross off the number that does NOT belong.

$$
\text { 100, 110, 120, 130, 140, 150, 160, 169, 170, } 180
$$

$\qquad$ not belong in the pattern?

Cross off the number that does NOT belong.
$4,3 \frac{20}{25}, 3 \frac{15}{25}, 3 \frac{10}{25}, 3 \frac{5}{25}, 3,2 \frac{20}{25}, 2 \frac{15}{25}, 2 \frac{10}{25}, 2 \frac{5}{25}$, 2, $1 \frac{20}{25}, 1 \frac{15}{25}, 1 \frac{10}{25}, 1 \frac{6}{25}, 1 \frac{5}{25}, 1, \frac{20}{25}, \frac{15}{25}$

Why does $\qquad$ not belong in the pattern?
Subtract $\frac{1}{5}$

Name:

$3-\frac{9}{11}-\frac{1}{2}=$


Write the reciprocal. 19


## Change $\frac{14}{20}$ to a

 decimal.

Write the decimal number for:
two hundred ninety-three and fifteen thousand, five hundred fifty-eight

There are 28 students in the Art Club. They all plan to enter a painting in the Mills River Art Contest. Of that number, 35\% procrastinated and didn't have a picture completed. How many students have pictures to enter?

On National Do Nothing Day, Mr. and Mrs. Lee played Monopoly all day. Mr. Lee won two of the first five games they played. At that rate, how many games will have been played when Mr. Lee wins his fourth game?

Jessica and Holly have a secret way of sending numbers to each other. Jessica drew a $y$-axis on the left of the paper and an $x$-axis on the bottom. Jessica plotted these points and wrote R (for the right number). Holly then found the secret coordinate. Draw a small grid to see if you can figure out the secret coordinate.

The points are $(8,7),(5,8),(7,9)$, and $(12,12)$.

Give two answers for x in each equation.

$$
\begin{aligned}
& |x+13|=18 \\
& |x-14|=19
\end{aligned}
$$

Name: $\qquad$

ACROSS
2. One-seventh of 8-Down
4. Nine less than 7-Across
6. Six more than 12-Down
7. One-seventh of 5-Down
12. Eight times 7-Across
14. $4+4=2 x$ $\qquad$
15. 20-Across plus 6-Across
16. One-eighth of 1-Down
17. Seven less than 4-Across
18. One less than 6-Across
20. 9-Down plus 6-Down
21. Seven times 1-Down

## DOWN

1. One-fourth of 6-Down
2. One-eighth of 12-Across
3. Three times 2-Across
4. Seven more than 8-Down
5. Nickels in eight dollars
6. Eight less than 18-Across
7. Four more than 6-Down
8. One-fourth of 20-Across
9. Six times 7-Across
10. Three less than 6-Down
11. 8-Down plus 14-Across
12. Seven times 4-Across


Name:

Rosa's father is her hero. He is a farmer and works very hard every day to take care of his family. He spends time with Rosa and her brother every day, even when he is very tired. On their farm, they have a herd of dairy cattle. There are one hundred nineteen cows in the herd. If it takes four-fifths of an acre of pastureland to provide grass for each cow, how many acres of pastureland are needed to provide grass for their dairy cattle?

Thirty-four percent of the plants in the park are broad-leafed plants and the rest are grasses. What percent of the plants are grasses?

Four trains per day leave from Bigtown to go to Smallville. Some go nonstop, while others occasionally stop to pick up and drop off passengers along the way. The A train takes 2.3 hours to make the trip. The B train takes 2 hours. The C train takes 1.8 hours, and the D train takes 2.8 hours. What is the average speed of all the trains combined? The distance from Smallville to Bigtown is 105 miles. Round your answer to the nearest tenth.

Mr. Physics has just told the class that there is a proportional relationship between cause $X$ and response $Y$. In fact it is well known (at least on Mr. Physics' planet) that every time cause $X$ goes up two units, response $Y$ goes up five and one tenth units. Knowing this, if cause $X$ increases by 44 units, by how many units will response Y increase? Round your answer to the nearest number of units.

A radio-controlled car is moving down a straight away on a track at a constant speed of $4.5 \mathrm{~m} / \mathrm{s}$. If the force applied by the drive system is 6 N , how great is the friction force applied to the car in the opposite direction?

A sample of ore is found to be $0.0049 \%$ gold and $0.067 \%$ silver. What is the percent of matter in the ore that is neither gold nor silver?

Name:

Rose was bored. She went to the store and bought a puzzle with 500 pieces. The puzzle cost \$9.88. She gave the clerk $\$ 10$. How much change did she get?

Ms. White bought a box of
plastic wrap to wrap the popcorn balls she had made.
The box contained $2 \frac{3}{4}$ yards of wrap. She used $\frac{1}{2}$ of it to wrap the popcorn balls. How much wrap does she have left?

The Peppermint Patty Ice Cream Parlor sold 114 peppermint parfaits the first month it was open. It sold 134 peppermint parfaits the second month and 154 the third month. If this pattern continues, how many peppermint parfaits will be sold the tenth month?

| Emily rolls a die. What is the chance of her rolling a 5 ? | $\begin{array}{r} 91 \\ -\quad 13 \\ \hline \end{array}$ | 8,553-7,953 |
| :---: | :---: | :---: |
|  |  | $12 \times 11=$ |
| The product of two consecutive whole numbers is 90. What are the two consecutive whole numbers? | Write the missing family fact.$\begin{aligned} & 4 \times 27=108 \\ & 27 \times 4=108 \\ & 108 \div 4=27 \end{aligned}$ |  |
| $\begin{aligned} & 1 \mathrm{lb}=16 \mathrm{oz} \\ & 17 \mathrm{lb}=\square \end{aligned}$ | How many feet are in 108 inches?$\qquad$ feet |  |

Name:



Name:

| $40 \div 5=\ldots$ | For 51,379,050,800, write the <br> digit that is in the ten <br> thousands place. | $40 \%$ of 100 is 40. <br> $40 \%$ of 200 is 80. <br> $40 \%$ of 500 is 200. |
| :--- | :--- | :--- |
| $3 \times 5=\ldots$ | What is $40 \%$ of $600 ?$ |  |



Name:

$$
\begin{aligned}
& 7 \bullet 6 \bullet \div \cdot=\bullet 2 \bullet 3 \bullet 3 \bullet x \bullet 5 \bullet 5 \bullet 3 \bullet 1 \bullet x \bullet 7 \bullet 1 \cdot 3 \\
& =\bullet 3 \cdot 8 \cdot 5
\end{aligned}
$$

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


| $48 \div 12=$ | What number is halfway <br> between 5 and $15 ?$ | $12 \div 4=\ldots$ |
| :--- | :--- | :--- |
|  |  |  |

Name: $\qquad$

$\square$ True
$\square$ True

$\square$ True
$\square$ False
Did you find that two are true? If not, look again! You should only mark TRUE if you are absolutely sure it is correct!

Name: $\qquad$
Complete each pattern. Write what the rule is.

58433, 84335, 43358, 33584, 35843, 84335,

43358, 33584, 35843, 58433, 84335, 43358, 33584

296325, 963252, 632529, 325296, 252963, 529632, 632529, 325296, 252963, 529632, 296325,

Complete each pattern. Write what the rule is for each pattern.
(14,281,868,906,496), (793,437,161,472), (44,079,842,304),
(2,448,880,128), (136,048,896), $(7,558,272)$,
(419,904), (23,328), (1,296), $\qquad$
(25,798,901,760), (2,149,908,480), (179,159,040),
(14,929,920), (1,244,160), (103,680), $(8,640),(720)$,

Name:

| Write the absolute value. |  |  |
| :--- | :--- | :--- |
| $\|8\|$ | $\|-7\|$ | $\|-5\|$ |
| $\|-10\|$ | $\|16\|$ | $\|-12\|$ |
| $\|-142\|$ | $\|-298\|$ |  |

Complete each inequality using $>,=$, or $<$. $|-88| \bigcirc|-73|$
|-20|

$-390$

427


|-754|

|588|

$|-413|$

$$
\begin{aligned}
& x=|-65| \\
& y=|-58|
\end{aligned}
$$


$4 x$

$x+1=$ $\qquad$

It was four degrees Celsius in the morning, but by evening the temperature dropped thirteen degrees. What was the temperature in the evening?

## Write the smallest number.

-5, 962, |-966|, |-287|, 772, |-3|, |-452|, 9, |-487|, 242, -1, |-507|, -857, |-214|

## Write the largest number.

6, |976|, |-4|, |-9|, -211, |-416|, |-774|, -752, $|-8|,-557,|2|,|-3|, 148,|0|$

## Write the smallest number.

|668|, 3, -708, 1, |-986|, -649, -912, 571, |874|, |538|, 151, 6, |9|, -529

Name: $\qquad$

Draw a line from START to END. | 6 |
| :---: |
| -34 |

15

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


Name: $\qquad$
Make change. You can use $\$ 20, \$ 10, \$ 5, \$ 1,25 \llbracket, 10 \llbracket, 5 \llbracket$, or $1 \uparrow$.
Use the fewest bills and coins to make $\$ 32.36$.

$\square$


Use the fewest bills and coins to make $\$ 36.56$.

Use the fewest bills and coins to make $\$ 16.32$.

Use the fewest bills and coins to make $\$ 35.38$.

| $2 \times 6=\square$ | $(6+7)+5=$ |
| :--- | :--- |

Name:
Sally bought a kit to make fidgets. The box says that you can make up to 26 fidgets, so that would be the most she could make. Sally tried to make one. It took her 36 seconds to make. How many fidgets can she make in an hour? Assume she takes a 13 -second break after making each fidget.

In a game, Jenna and Sara each have their own territory and currency. When you visit Jenna, you will use whatters. On the other hand, if you visit Sara, you will use clingdones. The value of one whatter is equal to 6.5 clingdones. Sara wants to visit Jenna. She has 22 clingdones, so she exchanges half of her clingdones for whatters. The exchange place rounds to the nearest tenth on exchanges. How much in whatters and clingdones does Sara currently have?

Name:

## Sudoku Sums of 10

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 10 .

Here is an example of a sudoku sum of 10


|  | 1 |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 7 |  | 8 | 6 | 3 |  | 5 |  |
| 2 |  | 3 | 5 |  |  | 6 | 7 |  |
| 8 | 9 |  |  | 3 |  |  |  |  |
|  |  |  |  | 9 | 1 | 3 |  | 7 |
|  |  |  |  | 5 |  |  |  |  |
| 7 |  |  | 1 |  | 4 |  |  |  |
|  | 5 |  |  | 2 |  |  |  | 8 |
|  | 4 |  |  |  |  |  | 1 | 2 |


$5 \times 78 \div 6-70 \div 7=$

Name:
Emma, Brandon, Makayla, and Devin each started a sticker collection in March. Each one of them collected a different number of stickers in March and April. During the first month, they collected 27, 23, 21, and 25 stickers. During the second month, they collected $42,44,53$, and 39 stickers.

Figure out how many stickers each person collected in March and April.

1. Makayla collected twenty-one more stickers in April than in March.
2. If Devin did not collect stickers in March then Devin would only have 44 stickers.
3. Brandon and Emma both were not the ones who collected twenty-five stickers in March.
4. Emma has a total of eighty stickers.
5. If Emma did not collect stickers in March then Emma would only have 53 stickers.
6. Brandon has a total of sixty-two stickers.

Emma collected $\qquad$ stickers in March and $\qquad$ stickers in April.

Brandon collected $\qquad$ stickers in March and $\qquad$ stickers in April.

Makayla collected $\qquad$ stickers in March and $\qquad$ stickers in April.

Devin collected $\qquad$ stickers in March and $\qquad$ stickers in April.

The boys in your class each were given a ticket with a number on it. The numbers given out were: 30, 8, 37, 27, 13, 11, 26, 25, and 21. One ticket will be picked from a hat. What are the chances that the winning ticket number is divisible by 6 ?



