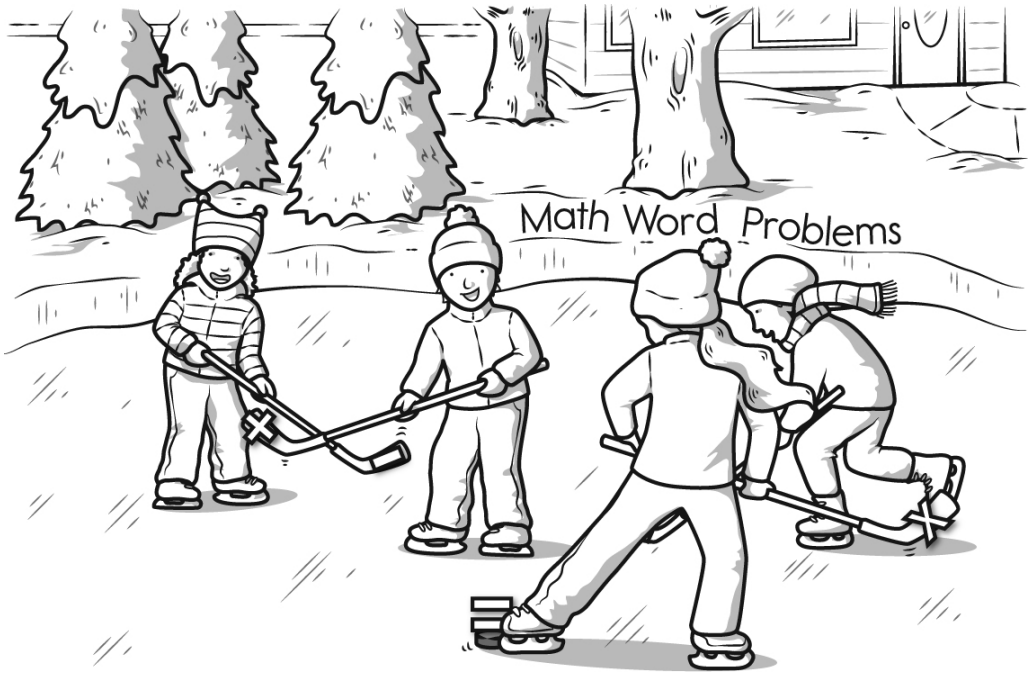
MONTHLY MATH CHALLENGE

Homework

February



My Name: _____

Do all of these, but skip 2 pages:

- ☐ page 1
- ☐ page 2
- ☐ page 3
- ☐ page 4
- ☐ page 5
- ☐ page 6
- ☐ page 7
- ☐ page 8
- ☐ page 9
- ☐ page 10
- ☐ page 11
- ☐ page 12
- ☐ page 13
- ☐ page 14
- ☐ page 15
- ☐ page 16
- ☐ page 17
- ☐ page 18
- ☐ page 19
- ☐ page 20
- ☐ page 21
- ☐ page 22
- ☐ page 23
- ☐ page 24
- ☐ page 25
- ☐ page 26
- ☐ page 27
- ☐ page 28
- ☐ page 29
- ☐ page 30
- ☐ page 31
- ☐ page 32
- ☐ page 33
- ☐ page 34
- ☐ page 35

Find a helper.

He/she helped by checking my work.

Hand in by February 28.

Feel free to hand in early!

☐ I did page 1 ☐ I decided to skip this page

edHelper

Name: _____

Get a fidget spinner! Spin it. **I needed to spin _____ time(s) to finish.**

$\frac{6}{9} \times \frac{7}{9}$

Rewrite $\frac{1}{20}$ as a decimal.

Simplify.

$\frac{8{,}500}{13{,}600} =$

Each side of a regular pentagon is 99.7 centimeters. What is the perimeter?

11g - 24.1 = 30.9

g =

If 5x = 70, then x =

(10 + 14 + 7) =

0.9 (0.6 (0.9 x 7)) =

Simplify.

$\frac{20}{40} =$

Rewrite as an algebraic expression or equation.

The quotient of 110 and v is 11.

Emma told the class that they should drink about 1.86 liters of water per day. There are 15 kids in the class, including Emma. They will all try to do that. How much water will the class drink in a day?

Crazy Kevin had pizza 26 days in the month of November. What percent of the month did he have pizza?

Name: _____

100 x 4.13 =

Write the decimal number for:

eleven ten-thousandths

19.53 x 1,000 =

Change $\frac{18}{20}$ to a decimal.

Write the decimal in words.
4.7692

$0.014\overline{)0.01554}$

$$\begin{array}{r} 3.9 \\ +3.962 \\ \hline \end{array}$$

$$\begin{array}{r} 13.6 \\ +\ 4.35 \\ \hline \end{array}$$

$$\begin{array}{r} 5.27 \\ \times\ 4.5 \\ \hline \end{array}$$

$16\overline{)0.928}$

Rewrite as a vertical equation and solve.
1.87 + 1.87 + 87.46 + 2.9663

$$\begin{array}{r} 549{,}367.04 \\ 537{,}080.25 \\ +568{,}332.54 \\ \hline \end{array}$$

Name: _____

If Luis had twenty-five more nickels and seven more pennies, he would have the same number of nickels, pennies, and quarters. Luis has a total of $10.46. How many of each coin does he have?

David has nickels, dimes, and quarters. He has a total of $19.20. He has sixteen more nickels than dimes and four times as many quarters as dimes. How many of each coin does he have?

If Isaac had seven fewer nickels, he would have four times as many nickels as dimes. The total value of the coins is $4.25. How many of each coin does he have?

Victoria went to the mall. She spent ten quarters and six dimes there. Before going to the mall, Victoria had seventy-one dimes and quarters, which totaled $12.20. How much money does she have left?

Name: _____

Olivia has nickels, dimes, and quarters. She has a total of $35. She has three times as many quarters as nickels and one-half as many nickels as dimes. How many of each coin does she have?

Courtney has two fewer nickels than pennies and seven fewer quarters than nickels. Courtney has a total of $4.47. How many of each coin does she have?

Amber has a total of twenty-two pennies and dimes. She has twelve more dimes than pennies. How many of each coin does she have?

If Megan had eighteen fewer pennies, she would have four times as many pennies as nickels. The total value of the coins is $0.99. How many of each coin does she have?

☐ I did page 5 ☐ I decided to skip this page

edHelper

Name: _____

$\begin{array}{r} 619 \\ -\ 58 \\ \hline \end{array}$	$\begin{array}{r} 757 \\ +\ 39 \\ \hline \end{array}$	$\begin{array}{r} 378 \\ -\ 216 \\ \hline \end{array}$
$9\overline{)45}$ Divide and write remainder.	$\begin{array}{r} 39{,}884 \\ 8{,}029{,}360 \\ 847{,}914 \\ +\ \ 1{,}270 \\ \hline \end{array}$	Find the sum of 62, 18, and 371.
$\begin{array}{r} 3{,}761 \\ -\ 327 \\ \hline \end{array}$	$\begin{array}{r} 44{,}567 \\ -\ 40{,}878 \\ \hline \end{array}$	991 - 6374 =
$6\overline{)805}$ Divide and write remainder.	$3\overline{)4380}$ Divide and write remainder.	$57\overline{)7955}$ Divide and write remainder.

Name: _____

An estimated 22,940 people attended the state championship football game. If 10,266 were female, how many were male?

239 birds flew south on Wednesday, 166 flew south on Thursday and 370 on Friday. How many birds flew south during those three days?

The image of the fiber in the photograph had been enlarged by the investigators to 10 times its original size. If the actual fiber was 0.9 mm wide, what was the width of the enlarged fiber image?

Simplify.

$\frac{12}{27}$ =

419 ÷ 10

28, _____, 42, 49, 56, 63

Robert practiced his clarinet for 50 minutes each day except Sundays. (He took Sundays off.) If he followed this schedule for 7 weeks, how long would he have practiced?

During the Iditarod trail run to deliver diphtheria serum to Nome, 26 mushers covered 700 miles in 122 hours. What was the average speed of the dog teams? Round your answer to the nearest hundredth.

Mr. Bloop bought 0.55 pounds of bacon at a price of $1.76 per pound. What was the cost of the bacon he purchased?

t - 7 + t = 23
What is the value of t?

(10 + 14) + 6 = 2(v + 11)

What is the value of v?

The letter V has an unknown value. If you multiply V by sixteen, the product is four. What value does V have?

Name: _____

Peter wanted to create a computer program to simulate a probability game. The game was based on removing colored marbles from a bag. He experimented with an actual bag of marbles a bit before beginning to write his program. In one example he thought about, there were 12 marbles in the bag -- 2 red, 4 blue, and 6 green. He removed one blue marble from the bag. If he then took a marble at random from the bag, what is the probability it would be blue?

Anne was covering the outside edge of her front door with masking tape before painting it. She did not want to get any paint on the edges, only on the front and back of the door. The door was a rectangle 2.2 meters high, and she used exactly 7 meters of tape to mask the edges. How wide was the door?

$\frac{9}{12} \times \frac{5}{9}$

$17b - 14.4 = 70.6$

$b =$

$y = x + 19$

$y = 29$

What is the value of x?

Robert had a piece of PVC pipe 8 ft 3 in long. He needed to cut it down to 6 ft 8 in. How much did he need to remove?

Hannah spent $29 buying 5 old radios at the flea market. She paid $6.20 for one radio and $4.75 each for two more radios. If the other two radios cost the same, how much did she spend on each of them?

Ava got her test score back in geometry class. She answered 77% of the 50 questions correctly. How many questions did she get correct? You may have to round your answer to the nearest whole number.

Name: _____

A rectangle, whose perimeter is one hundred four feet, has a length that is twelve feet longer than its width. What are the dimensions of the rectangle?

The length of a rectangle is six times its width. The area of the rectangle is six thousand, one hundred forty-four square feet. What is the perimeter of the rectangle?

If Kyle were born four years before his real birthday, his current age would be five times Sierra's current age. Kyle is thirty-two years older than Sierra. How old is Sierra?

The ratio of votes for Morgan to votes for Julia in an election is 5:16. There were a total of 2,331 votes. How many people voted for Julia?

Morgan has three times as many nickels as dimes. The total value of the coins is $4. How many of each coin does she have?

9.7 added to eleven times a number is $76\frac{37}{60}$. What is the number?

Name: _____

The sum of a two-digit number and its reverse is 99. The ones digit is three more than the tens digit. What is the number?

Jacob's dimes and quarters total $21.45. If the dimes were replaced by quarters and the quarters were replaced by dimes, then he would have $14.25. How many of each coin does he have?

Cody and his two friends, Daniel and Kyle, had an average score of 88 on a math quiz. Cody's score was twelve less than Daniel's and nine less than Kyle's. What was the average of Kyle's and Cody's scores?

Two years ago, Rachel was half as old as she will be in eight years. How old is Rachel?

The Bagel Bank raised the interest rate that Mackenzie has to pay on her car loan by 3%. Bagel Bank uses the simple interest method, calculated annually, to determine the interest charges. She now has to pay $189 more per year on her car loan. Prior to the increase, she paid $378 per year. What is the current interest rate that Bagel Bank is charging Mackenzie?

Anna made two investments for a total amount of $1,310. One investment is at 4% and the other at 5%. The annual simple interest from the 5% investment is $7.40 less than the interest from the 4% investment. How much money was invested at 4%?

Name: _____

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

Last night, Emily counted the number of instant messages she received. She received six from Jacob, five from Emily, three from Kevin, three from Alex, and twenty-five from her best friend (and very chatty) Emma. She turned on her computer. What is the probability that the first instant message she receives is from Emma?

A special ship was used by MegaSea Inc., to collect rock samples from near an oceanic ridge. The rocks were then dated using radioactive analysis methods. The oldest samples were estimated to be 59.4 million years old. The youngest samples were 27.5 million years old. What was the age span of the rocks?

Jack bought a die at the magic shop. He rolls it 149 times and gets the following results. A 1 thirty-one times, a 2 twenty-one times, a 3 nineteen times, a 4 twenty-five times, a 5 eighteen times and a 6 thirty-five times. What is the probability he will get a 6 on the next roll?

Connor found a snake in the yard a total of ten times (on different days) during last year. Assuming last year was a non-leap year, what is the probability Connor will find a snake in his yard on any particular day?

If the probability that a chicken will cross the road is one-fourth, then what is the ratio that the chicken will cross the road to the chicken will not cross the road? _____ to _____

Name: _____

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 2.1 hours to make the trip. The B train takes 2.1 hours. The C train takes 1.8 hours, and the D train takes 2.5 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.

Nicky's uncle wants to paint his apartment in Venice. The apartment is five hundred square meters. He will have to cover one-fifth of that space with a drop cloth to prevent the paint from getting on the floor. How many square meters of drop cloth will he need?

There are three hundred students at edHelper Middle School in Brain City. If 54% of the students are female, what is the ratio of female students to male students? Make sure your answer is in lowest terms!

Holly estimates that two-fifths of a certain type of stone has a mass greater than three-eighths of a gram. If she has 580 of these stones, about how many stones have a mass less than or equal to three-eighths of a gram?

Mr. Bloop is rolling small steel disks down a ramp. Each disk is 3 cm in diameter and 4 mm thick. It takes 7 seconds to go down the ramp and the distance traveled from the top to the bottom of the ramp is 117 cm. How many revolutions does a disk make on the way down? Round your answer to the nearest hundredth.

Amy, Sarah, and Jack are running for class president. Kevin surveyed fifty-six students. Twenty-five students plan to vote for Amy, nine plan to vote for Sarah, five students do not plan to vote, and the rest of the students she surveyed plan to vote for Jack. What is the probability that the next student surveyed plans to vote for Jack?

Name: _____

If you take the first number and subtract it by the second, the difference is 16.

What are the two numbers?

Figure out the greatest common factor of the following numbers:

12	51	90

Name: _____

The sum of thirty-six and twenty is eleven more than a number. What is the number?

Eighteen exceeds one-ninth of a number by 15. What is the number?

Four-fifths of a number equals 32. What is the number?

Thirty-three more than five-sixths of a number equals 108. What is the number?

5,000 and 7,000,000 added to a number is 7,617,731. What is the number?

If a number is decreased by 1, the result is 66. What is the number?

Name: _____

A number plus 53 is seventy-five. What is the number?

Two-fourths of a number equals 520. What is the number?

Fifty-two more than 4 times a number is 100. What is the number?

Seven times a number is $17\frac{1}{2}$. What is the number?

Twenty-six less than a number is twenty-five. What is the number?

If ten is added fifteen times to a number, the result is 217. What is the number?

Name: _____

-27 - (11) =

18 - (-12) =

-(23) - (-4) =

(7.5) - (-2.1) - (2.3) =

(-8.8) (-11.4) =

(-8.5) (11.9) =

Use >, <, or = to complete.

-6.5 ___ -6.50

3 ___ -8

-7.74 ___ -7.7

(-7) (-11) =

(8) (-12) =

(-12) (8) =

Use >, <, or = to complete.

3.6 ___ -3.8

-6.60 ___ 6.6

9.62 ___ -9.6

26 - (-9) =

-(-27) - (11) =

25 - (-3) =

(-6.8) - (-2.9) - (-4.1) =

(-4) (7) =

(-9) (-10) =

(9) (-8) =

Write the reciprocal of each number.

-15 _____

7 _____

$\frac{15}{6}$ _____

Simplify.

-(2) _____

-(-1) _____

$-\left(\frac{3}{5}\right)$ _____

Simplify.

$-\left|\frac{-3}{5}\right|$ _____

| -9 | _____

$\left|\frac{4}{7}\right|$ _____

Name: _____

Use >, <, or = to complete.

-6.2 ___ -6.8

-4.8 ___ -4.80

-3 ___ -2

Use >, <, or = to complete.

1.4 ___ -1.3

6.20 ___ -6.2

-7 ___ -8

(11.4) (-5.3) =

(4.5) (-6.2) =

(11.4) - (4.6) - (4.7) =

-(20) - (-5) =

-27 - (6) =

-15 - (8) =

Use >, <, or = to complete.

4.2 ___ -4.20

3 ___ -4

-1.4 ___ -1.7

Write these numbers in order from least to greatest:

$\frac{-2}{6}$, $3\frac{1}{3}$, -7, $\frac{3}{6}$, 0

(4.8) (-8.5) =

(-8.2) (5.8) =

(5) (-6) =

(-7) (7) =

(-5) (10) =

Use >, <, or = to complete.

-3.7 ___ -3.5

-8 ___ -4

-5.7 ___ 5.74

Use >, <, or = to complete.

-8.2 ___ -8.26

1.4 ___ -1.6

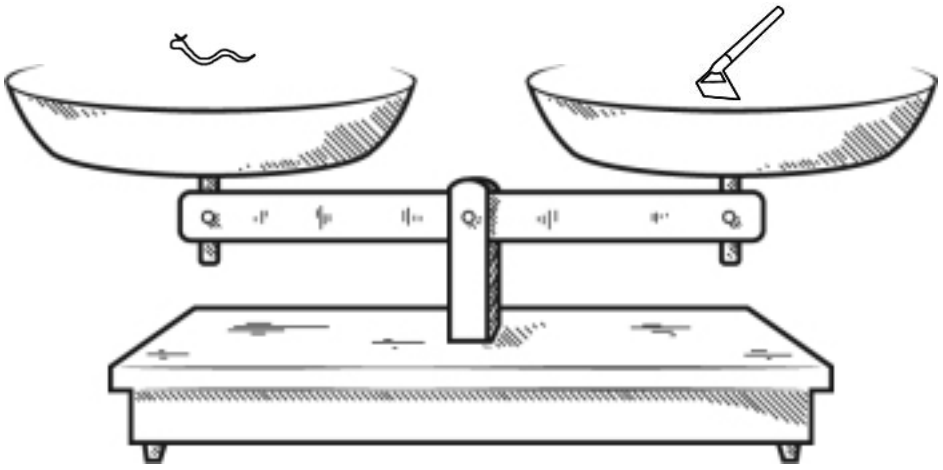
-4 ___ -9

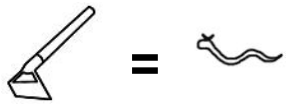
-15 - (4) =

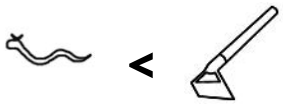
-(24) - (-11) =

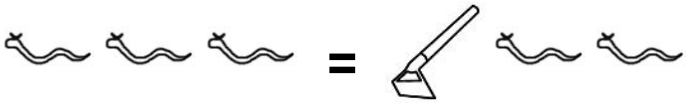
-24 - (5) =

Name: _____



 ☐ True ☐ False

 ☐ True ☐ False

 ☐ True ☐ False

 ☐ True ☐ False

 ☐ True ☐ 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!

0.19 • 4 =

1 + 55 ÷ 5

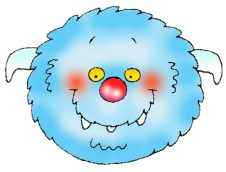
t - 13 + 14 = 31
What is the value of t?

1 kg = 1,000 g

6 kg = _____ g

132 ÷ 11 = _____

12 x 6 =



Name: _____

Brian, Jason, Jordan, Stephanie, and Eric each recycled a different number of cans (29, 18, 15, 28, and 25), as well as a different number of junk mail letters (123, 136, 134, 116, and 119).

Figure out how many cans and junk mail letters each person recycled.

1. Stephanie recycled the most number of junk mail letters.
2. Jordan recycled less than one hundred twenty-seven junk mail letters.
3. Stephanie recycled a total of one hundred sixty-one cans and junk mail letters.
4. Stephanie recycled more than nineteen cans.
5. Jordan and Stephanie recycled a total of three hundred eight cans and junk mail letters.
6. Brian recycled one hundred eight more junk mail letters than the number of cans he recycled.
7. Eric recycled one hundred sixteen more junk mail letters than the number of cans he recycled.
8. Eric recycled less than one hundred thirty-six junk mail letters.
9. Jason recycled the most number of cans.
10. If the number of cans Jason recycled was doubled, he would have recycled fifty-eight cans.

Brian recycled _____ cans and _____ junk mail letters.

Jason recycled _____ cans and _____ junk mail letters.

Jordan recycled _____ cans and _____ junk mail letters.

Stephanie recycled _____ cans and _____ junk mail letters.

Eric recycled _____ cans and _____ junk mail letters.

14 + m = 18

What is the greatest common factor of 16 and 28?

What is the greatest common factor of 6 and 4?

Name: _____

Cross off the letter that does NOT belong.

C, F, D, G, E, G, H, F, I, G, J

Why does _____ not belong in the pattern?

Cross off the number that does NOT belong.

$13\frac{15}{20}$, $13\frac{10}{20}$, $13\frac{9}{20}$, $13\frac{6}{20}$, $13\frac{1}{20}$, $12\frac{17}{20}$, $12\frac{12}{20}$,

$12\frac{8}{20}$, $12\frac{3}{20}$, $11\frac{19}{20}$, $11\frac{14}{20}$, $11\frac{10}{20}$, $11\frac{5}{20}$

Why does _____ not belong in the pattern?

Name: _____

Sudoku Sums of 14

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 14.

Here is an example of a sudoku sum of 14:

10	4

	7						5	
9	2				8	6	7	
6	5		4	1				
5	4	7				9		
	6		5			4		
					1			
2	1	6						
4			8					2
	8		1		9			

Find the sum of 17, 12, and 49.

$$\begin{array}{r} 956 \\ -\ 17 \\ \hline \end{array}$$

Subtract 157 from 510.

Name: _____

Complete each pattern, using the same rule. Write what the rule is.

197, 180, 163, 146, 129, 112, 95, _____, 61, 44

145, _____, _____, 94, 77, _____, _____

174, 157, _____, _____, 106, 89, 72, _____

Complete each pattern. Write what the rule is. HINT: The first three numbers in each pattern are random numbers.

12.2, 8.9, 3.8, 24.9, 37.6, 66.3, 128.8,

232.7, 427.8, 789.3, 1449.8, 2666.9, _____, _____

6.9, 23.8, 9.1, 39.8, 72.7, 121.6, 234.1,

428.4, 784.1, 1446.6, 2659.1, _____, _____

Name: _____

Each row, column, and box must have the numbers 1 through 9.

3			4	9	6			
5		6						
	8				5			3
6	9	1			2			
4				5				
		7		3			1	
	2					5	7	1
			3	8	1	6		
						4	3	

$2 \times 2 \times 2 \times 2 \times 2 = Z^y$

What is the value of Z and y?

$505 \div 10$

Rewrite $\frac{1}{100}$ as a decimal.

How many ounces are in 3 pounds?

_____ ounces

Ava rolls a die. What is the chance of her rolling a 4?

_____

Name: _____

Cross off the number that does NOT belong.

13, 15, 17, 19, 21, 23, 24, 25, 27, 29

Why does _____ not belong in the pattern?

Cross off the number that does NOT belong.

(98,415) , (32,805) , (10,935) ,

(9,972) , (3,645) , (1,215) , (405) ,

(135) , (45) , (15)

Why does _____ not belong in the pattern?

Name: _____

There are four boxes (a blue box, a yellow box, a black box, and a green box). Each box has a different length (27 cm 5 mm, 40 cm 9 mm, 39 cm 2 mm, and 25 cm 2 mm), a different width (7 cm 3 mm, 6 cm 6 mm, 5 cm 3 mm, and 12 cm 2 mm), and a different height (86 cm, 89 cm 6 mm, 90 cm 2 mm, and 73 cm 7 mm).

Figure out the length, width, height, and volume for each box.

1. The green box has the smallest width.
2. One box has a width of 6 cm 6 mm and a height of 90 cm 2 mm.
3. The length of the black box is 0.392 meters.
4. If the length of the blue box was increased by 9 cm, the volume of the blue box would increase by 5,357,880 cubic millimeters.
5. One box has a length of 25 cm 2 mm and a height of 86 cm.
6. The volume of the yellow box is 24,726,350 cubic millimeters.
7. The blue box has the largest length.

blue box: length =_____, width= _____, height = _____, and volume = _____

yellow box: length =_____, width= _____, height = _____, and volume = _____

black box: length =_____, width= _____, height = _____, and volume = _____

green box: length =_____, width= _____, height = _____, and volume = _____

Write the reciprocal.

$\frac{11}{18}$

Write the reciprocal.

$\frac{3}{2}$

Write the reciprocal.

$\frac{24}{16}$

0.3 x 0.9

What is the remainder of 45 divided by 6?

2 + (117 ÷ 9) - 132 ÷ 12 =

Name: _____

Grace, Amber, Hannah, and Megan competed in the women's singles figure skating competition.

Each person has been assigned a technical and presentation ordinal mark. A mark of 1.0 indicated that the person was placed in first place. To determine the winner, the two marks from each judge are added together and assigned an ordinal. In case of a tie, the technical mark has more weight. If there is still a tie, we will allow both people to share the same rank. (Please note that these calculations are simplified from the actual Olympics.)

For the technical ordinal score, the judges give the best performance an ordinal of one. The next best performance receives an ordinal of two, and so on. The presentation ordinal score is assigned in the same way. So for four people, a person could have a presentation ordinal score ranging from 1 to 4.

(When ordinals are compared, a higher ordinal score actually means a lower number. For example an ordinal of 1 is better, and considered higher than an ordinal of 3.)
Figure out the scores for each skater and their final rankings.

1. Amber's technical ordinal is equal to her presentation ordinal.
2. Megan did not have a presentation ordinal mark of 2.
3. Hannah had the best technical ordinal score.
4. One skater received a 3 technical ordinal and a 3 presentation ordinal.
5. Megan's technical ordinal is lower than her presentation ordinal.
6. Megan's technical ordinal score was lower than Amber's technical ordinal score.
7. One skater received a 4 presentation ordinal and a 1 technical ordinal.
8. Grace's technical ordinal score was higher than Megan's and lower than Amber's.

Grace received a score of _____. Grace came in _____ place.

Amber received a score of _____. Amber came in _____ place.

Hannah received a score of _____. Hannah came in _____ place.

Megan received a score of _____. Megan came in _____ place.

word root **ob** can mean **to or toward** **obstruct, obstruction**

Name: _____

Each box needs a number from 1 to 9. You may re-use numbers.

One set of sums has been done for you.

sum of 9 ↓			sum of 9 ↓	sum of 6 →			
	sum of 2 ↓	sum of 8 →	4	2	2		
		sum of 8 ↓			sum of 7 ↓		sum of 8 ↓
						sum of 5 ↓	
	sum of 8 ↓			sum of 8 ↓			
sum of 10 ↓			sum of 6 →				sum of 10 ↓
			sum of 9 →				

sum of 5 ↓	sum of 3 →			sum of 4 ↓	sum of 3 ↓	sum of 6 ↓	sum of 5 ↓
	sum of 5 ↓	sum of 9 ↓	sum of 9 ↓		1		
					1		
sum of 10 →					1		
	sum of 6 →						
				sum of 9 →			
sum of 10 →							
	sum of 6 →						

6 x 5 = _____

Rose rolls two dice. She adds the numbers on the two dice. What is the chance of this sum being nine?

What number is halfway between 11 and 23?

$$\begin{array}{r} 761 \\ -\ 694 \\ \hline \end{array}$$

Circle the digit in the tenths place.

344.83

Jenna rolls two dice. What is the chance of her rolling a 5 on one die and a 4 on the other die?

_____

773 - 411 = _____

What time is 15 hours after 2:00 p.m.?

_____

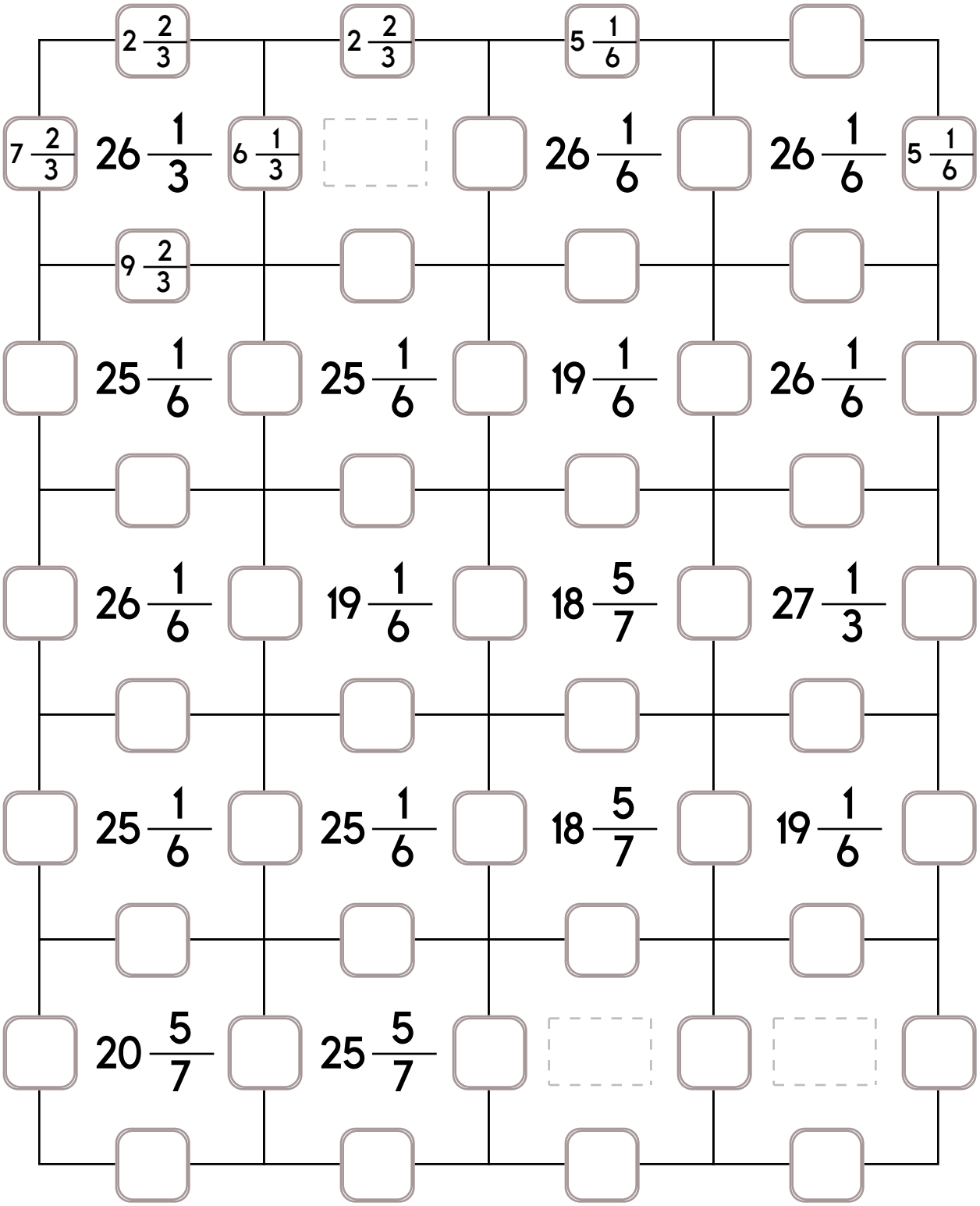
$$\begin{array}{r} 376 \\ +\ 247 \\ \hline \end{array}$$

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: $6\frac{1}{3}$, $4\frac{5}{7}$, or $5\frac{1}{6}$.

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



☐ I did page 28 ☐ I decided to skip this page

Name: _____

Get a fidget spinner! Spin it. **I needed to spin _____ time(s) to finish.**

If n = -7 and m = 49 then what is 10n + 14m - 3m = ?

Simplify.

$\frac{25{,}000}{30{,}000}$ =

33 ÷ 3 - 11

What is the mode of the following number set?

83, 79, 65, 76, 79, 81, 72, 83, 75, 66, 62, 74, 82, 77

At the dive meet Hunter received scores of 6.3, 7.2, 7.9, 7.9, and 8.2. The largest and smallest scores were dropped and the rest were averaged for a final score. What is the final score Hunter received?

A circle graph has four sections. Only three sections are labeled. The labels are 16.65%, 16.15%, and 11.2%. What should the missing section be?

The angles in a quadrilateral measure 106°, 107°, 114°, and j°. What is the value of j?

Rewrite as an algebraic expression or equation.

Add 25 to the product of d and 6

H, M, I, P, J, S, K, V, _____, Y

Name: _____

Find 40% of 255.

Change 19% to a decimal.

Change 0.88 to a percent.

Change $\frac{4}{8}$ to a decimal.

Change $\frac{9}{45}$ to a decimal.

Change $\frac{40}{100}$ to a percent.

Find 59% of 89.

Find 5% of 88.

Change $\frac{95}{100}$ to a percent.

Change 27% to a decimal and a fraction expressed in its lowest terms.

Change to percents.

$\frac{18}{100}$ =

$\frac{4}{10}$ =

$\frac{84}{100}$ =

$\frac{90}{100}$ =

$\frac{27}{100}$ =

$\frac{7}{10}$ =

Change 48% to a decimal and a fraction expressed in its lowest terms.

Name: _____

4.4 + 4.43 =

A) 8.955
B) 7.441
C) 8.73
D) 8.83

7 x 7 =

A) 49
B) 11
C) 41

What does the _____ stand for in the following equation?

63 _____ 9 = 7

A) ÷
B) +
C) x
D) -

If you wanted to estimate the difference of 59 and 33, what would your answer be (round by tens)?

A) 20
B) 30
C) 90

199 + 497 =

A) 596
B) 696
C) 203
D) 606

62.222 + 2.9 + -8.8 =

A) 56.322
B) 45.948
C) 174.966

Name: _____

Natalie has two times as many dimes as quarters and three times as many pennies as quarters. Natalie has a total of thirty-six pennies, dimes, and quarters. The total value of the coins is $2.88. How many of each coin does she have?

The value of a mix of Emma's nickels and dimes is $2.55. If the dimes were replaced by pennies, the value would be $1.20. How many of each coin does she have?

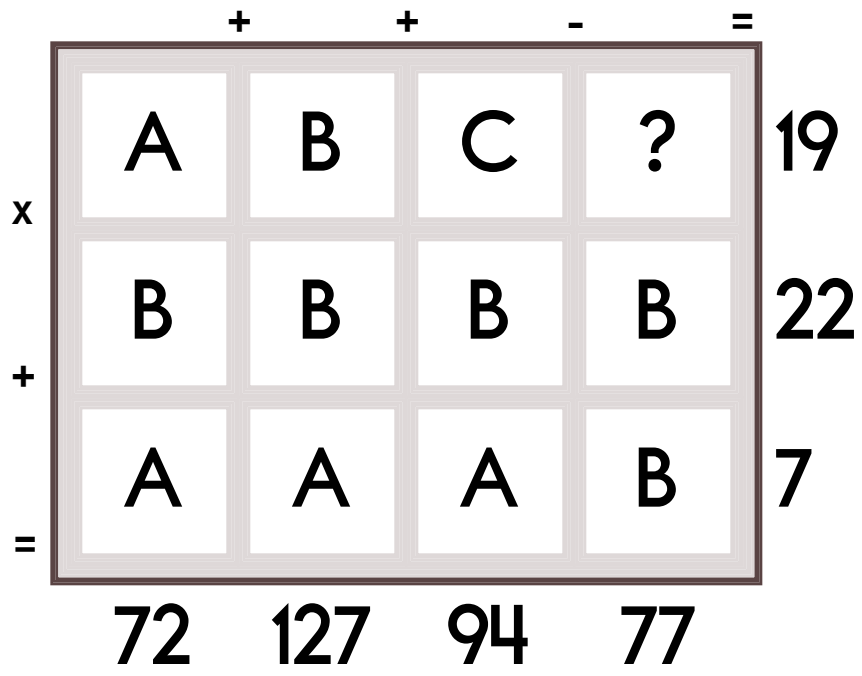
Stephanie's quarters and dimes total $13.50. If the quarters were replaced by pennies then she would have $6.78. How many of each coin does she have?

Kylie has a total of thirty-two dimes and nickels. She has ten more nickels than dimes. How much money does she have?

Megan has twenty fewer quarters than nickels. Megan has a total of twenty-four nickels and quarters. How much money does she have?

Isaac's dimes and quarters total $23.20. If the dimes were replaced by pennies then he would have $19.87. How many of each coin does he have?

Name: _____



Equations and Hints:

Each letter is a whole number.

Fill in the equations using the chart:

A + A + A - B = 7 ___ + B + B - B = 22

___ x ___ + ___ = 72 ___ x ___ + ___ = 94

___ x ___ + ___ = 127

Additional hints:

A < 8 C = A + 2

Solve:

? = ___

Name: _____

Captain Crump made 569 campaign speeches during the summer, and Commander Boink made 901 speeches over the same time. How many speeches did they make in all?

Does a scalene triangle have a hypotenuse? Explain.

You probably have a music CD or a movie somewhere handy. Use a ruler to measure the thickness of a CD or DVD. How thick is it in mm?

$0.17 \cdot 7 =$

$14f - 10.4 = 45.6$

$f =$

120, 100, 82, 66,

_____, 40, 30, 22, 16,

12, 10

Megan erected a fence that covered an area in the shape of a trapezium. The sides were all some multiple of a given unit (z). If the side lengths were z, 1.8z, 2.4z and 3z, how long was the fence if z was equal to 9 feet?

Translate the following words into an algebraic expression: "a number divided by three more than the number."

Holly is a math tutor at Megalopolis Middle School #3. She helps an average of 5 students in a 2-hour tutoring session. At that rate, how many hours would she need to tutor if 20 students needed help?

If $v = 5$ and $y = -21$ then what is $11v - 15y - 2y = ?$

What is the remainder of 111 divided by 14?

What is the greatest common factor of the numbers 98 and 70?

Name: _____

The sum of a number and 4 1/2 is 13 5/6. What is the number?

The sum of forty-three and twenty-two is fifty-six more than a number. What is the number?

Eleven times a number is 51 1/3. What is the number?

One-fourth of a number, increased by 51 is 60. What is the number?

Two-thirds of a number equals 8. What is the number?

Nineteen exceeds one-tenth of a number by 8. What is the number?

Name: _____

If eight is added fifteen times to a number, the result is 203. What is the number?

Seventy-five more than three-fourths of a number equals 147. What is the number?

A number minus 15.22 is 65.3. What is the number?

The sum of a number and 1/6 is 2/3. What is the number?

Sixteen less than a number is negative eighty-six. What is the number?

One hundred thirty-five less than a number is negative thirty-seven. What is the number?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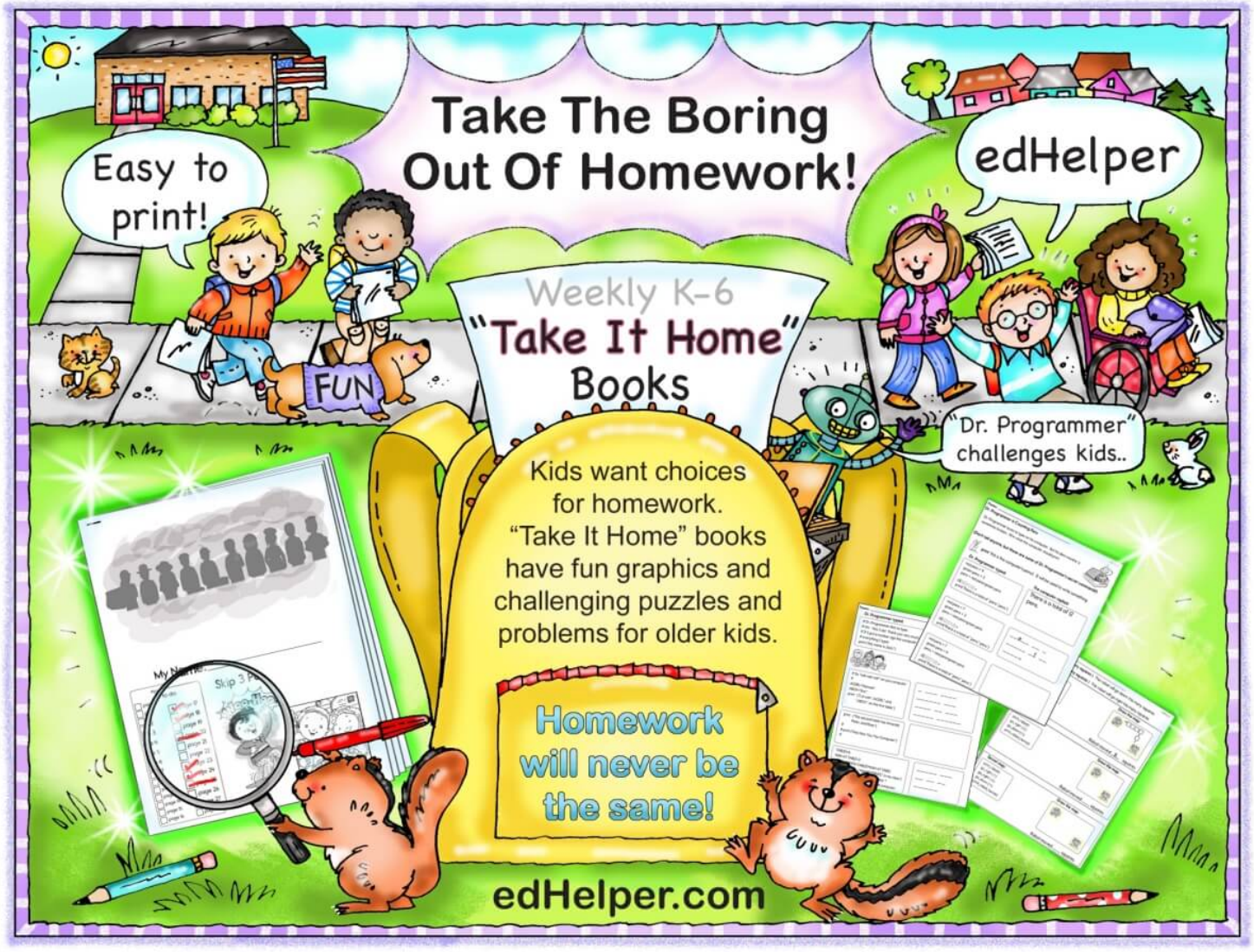
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