

73.5	-50.2		+7		+58.7		-59		-2.8	
------	-------	--	----	--	-------	--	-----	--	------	--

Name: _____

Challenge Math Book 28

Pick 25 to do:

Skip 2 pages.

☐ page 1
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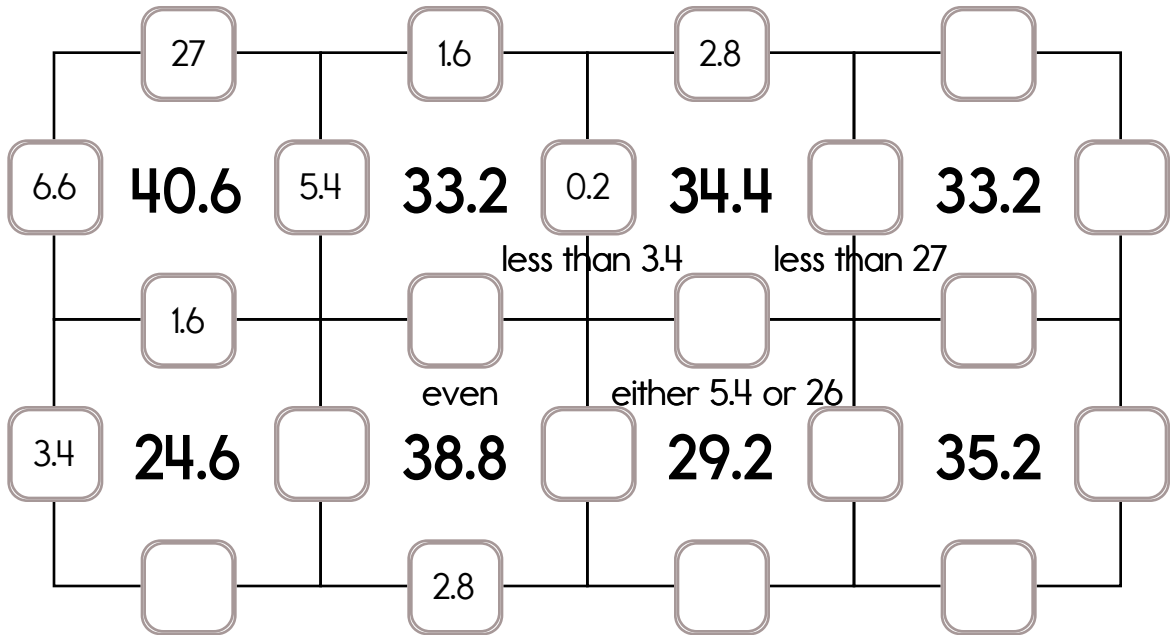
69
+9.3
+30
+8.4
-43.6
+34.7
-5.2

+9
+3
-1.1
-6.3
-4.6
+19.4
46.6
-25

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: 27, 13, or 26.

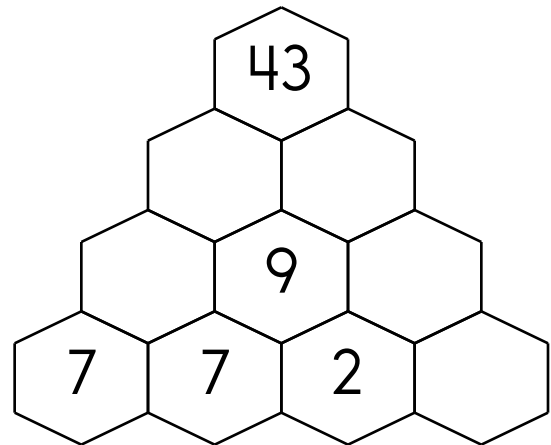
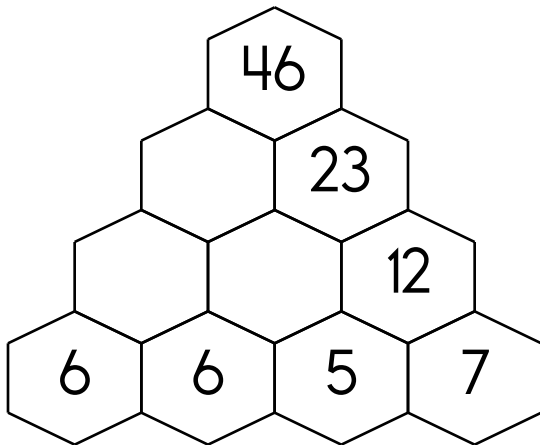
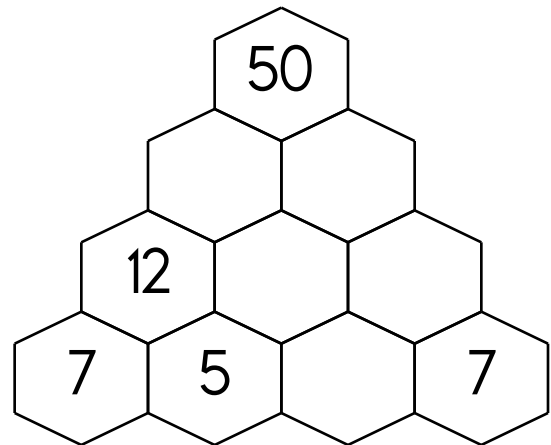
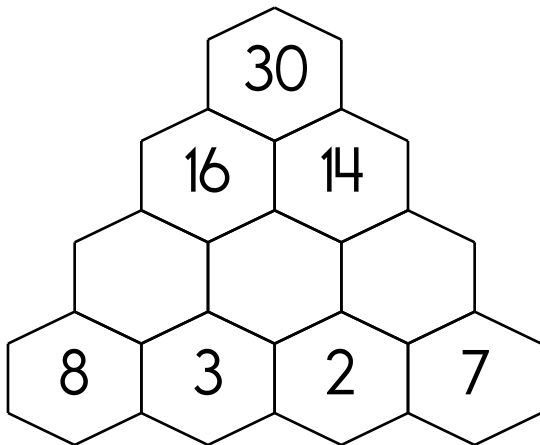
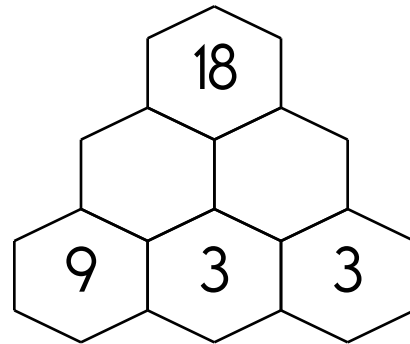
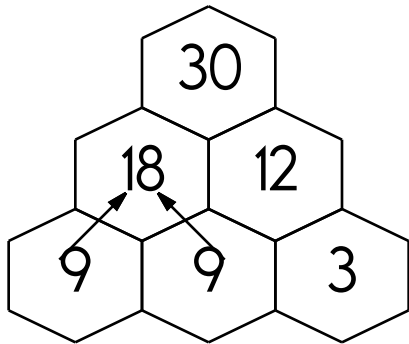
The other three numbers have to all be DIFFERENT and must be from these: 3.4, 7.4, 2.8, 0.2, 1.6, 6.6, or 5.4.



	+15		+12		-40.1		+15.9		+11	
--	-----	--	-----	--	-------	--	-------	--	-----	--

Name: _____

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

Is 30 a composite or a
prime number?

$$44 \div 4 = 11$$

triple 23 =

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.

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

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

4 1 3 2

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

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

3 2 4 1

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

Hint - These numbers are missing:

4 4 2 4

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

Hint - These numbers are missing:

1 3 4 2

4 + 5 = <input type="text"/>	2 + 4 = <input type="text"/>	7 + 7 = <input type="text"/>	7 + 4 = <input type="text"/>	9 + 6 = <input type="text"/>	9 + 5 = <input type="text"/>
------------------------------	------------------------------	------------------------------	------------------------------	------------------------------	------------------------------

Name: _____

Fill in the missing numbers.

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

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

Hint - These numbers are missing:

1 3 2 2 4 1 2

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

Hint - These numbers are missing:

3 2 4 3 2 3 2

	4		1
	1	2	4
2	4		

Hint - These numbers are missing:

3 2 3 1 3

	3	4	2
4		1	
		4	2

Hint - These numbers are missing:

3 3 2 1 1

F, K, G, L, H, M, I, N,
_____, O

95, _____, _____,
_____, _____, 101

D, _____, L, P, T, X

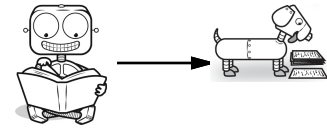
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I did page 4

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edHelper

Name: _____

Help Robot find Rover. Make a path of increasing sums. You can only move to a box with a larger sum. Draw a line to show your path.



	$11 + 17 =$	$15 + 40 =$	$62 + 69 =$	$19 + 43 =$	$42 + 12 =$	$59 + 42 =$	$50 + 14 =$
$25 + 14 =$	$28 + 14 =$	$25 + 23 =$	$27 + 22 =$	$11 + 45 =$	$24 + 33 =$	$49 + 18 =$	$27 + 49 =$
$41 + 36 =$	$47 + 71 =$	$82 + 53 =$	$69 + 34 =$	$22 + 51 =$	$14 + 55 =$	$37 + 31 =$	$38 + 52 =$
$86 + 37 =$	$35 + 50 =$	$12 + 94 =$	$21 + 82 =$	$41 + 38 =$	$94 + 97 =$	$68 + 52 =$	$19 + 40 =$
$81 + 44 =$	$25 + 62 =$	$12 + 73 =$	$30 + 54 =$	$24 + 56 =$	$85 + 31 =$	$41 + 92 =$	$90 + 41 =$
$42 + 48 =$	$54 + 34 =$	$11 + 84 =$	$31 + 65 =$	$68 + 30 =$	$19 + 83 =$	$82 + 24 =$	$42 + 66 =$
$91 + 78 =$	$47 + 45 =$	$22 + 53 =$	$95 + 35 =$	$58 + 93 =$	$94 + 20 =$	$17 + 96 =$	$66 + 45 =$
$39 + 99 =$	$43 + 48 =$	$54 + 54 =$	$34 + 18 =$	$36 + 20 =$	$41 + 77 =$	$87 + 32 =$	$55 + 83 =$
$89 + 51 =$	$89 + 28 =$	$20 + 65 =$	$29 + 11 =$	$54 + 74 =$	$51 + 66 =$	$72 + 53 =$	$35 + 91 =$
$81 + 99 =$	$48 + 61 =$	$30 + 13 =$	$31 + 69 =$	$16 + 24 =$	$33 + 17 =$	$49 + 71 =$	

Name: _____

Draw a line from START to END.

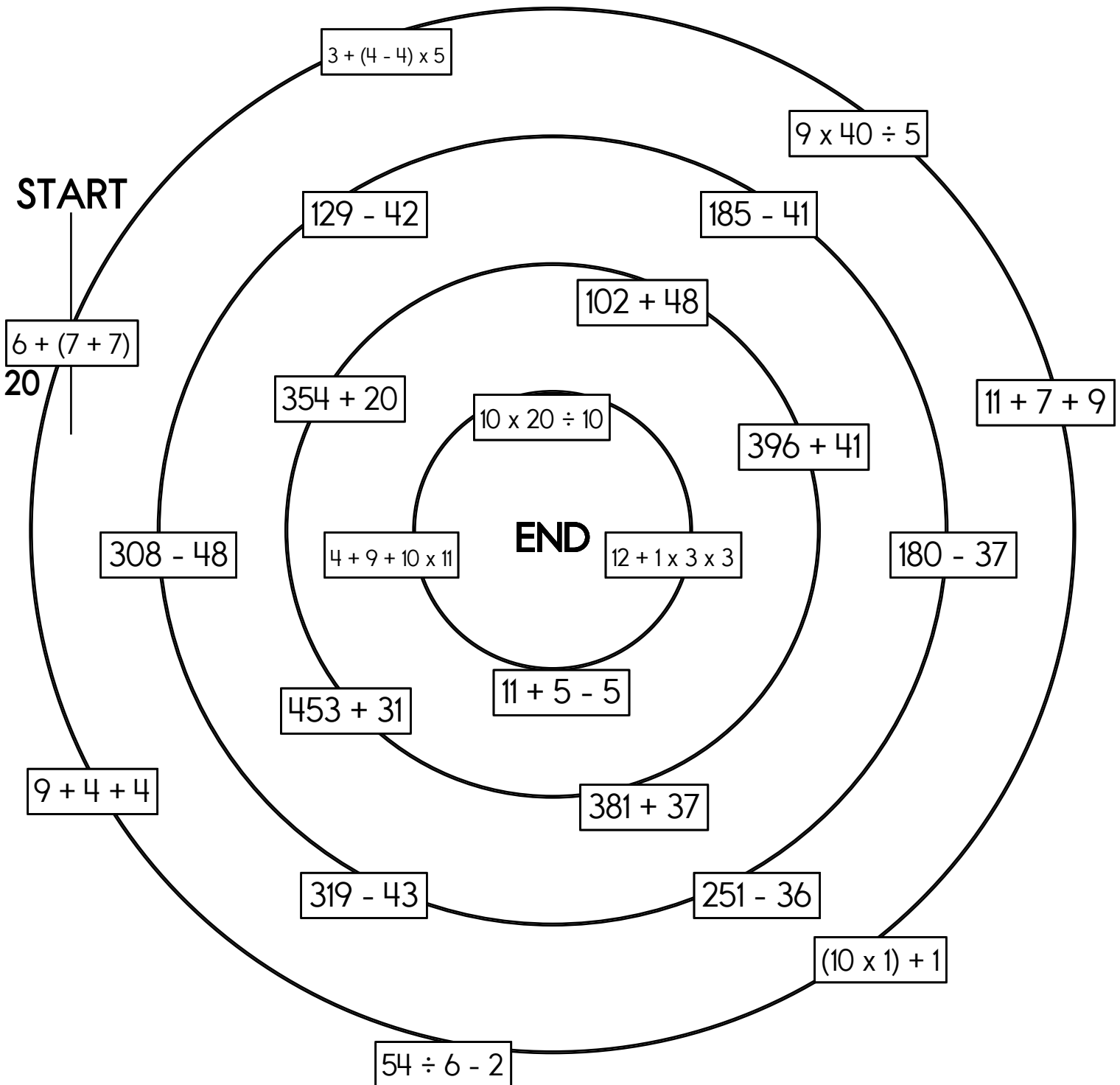
87

~~20~~

418

123

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



☐

I did page 6

☐I decided to skip this page
edHelper

Name: _____

Amy's pet is a king snake named Mick. Mick is still very young, so he is only eighteen inches long. When he is grown, he will be forty-six inches long. How much longer will he be when he is grown than he is now? Oh, by the way, Mick refused to be dressed up as anything!

Connor thought it was so funny! He went in the supermarket and all the clerks were wearing pajamas. The store manager and all workers were wearing pajamas, too! The funniest part was that all the pajamas had big yellow smiley faces on them. Connor spent \$10.48 on milk, eggs, cheese, and cookies. He gave the clerk \$20. How much change did he get?

Draw a small clock that shows 15 minutes to 11:00.

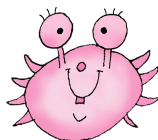
A book has 6 pages. Each page has 11 dimes. How many dimes in the book?

You need to add what to 49 to get 57?

April is selling cotton candy at the fair. The price for a bag of cotton candy is either \$1.92 or \$1.93. The price is divisible by 3. What is the price of a bag of cotton candy?

Ava and her mother were making a striped squares quilt. Each square was made up of 8 strips of fabric. If there were 60 squares in the quilt, how many strips of fabric would they need?

Miss McMurtry is making haggis for a Robert Burns celebration. The recipe calls for $\frac{3}{4}$ cup of oatmeal to 4 cups of stock. This makes three servings. She wants to make 15 servings. How many quarts of stock will she need?



Name: _____

What is the rule for each pattern?

41, 41, 49, 44, 57, 47, 65, 50, 73, 53, _____, _____

4, 4, 16, 13, 28, 22, 40, _____, _____, 40, 64, 49, 76

Complete each pattern. Write what the rule is.

17	34	51
68	85	
119		153

Name: _____

Rachel is writing a mystery novel about a bad guy whose name is Ol' Stinky. And he isn't good at math, if you know what I mean.

"I like it!" replies her friend Sandra. "After reading the first chapter, I can't figure out how many gold coins he has hidden."

"It's easy. Did you read the clues?"

"I did," replies Sandra. "It says he was counting his gold as he always does when he's bored. He counted by 6s and had 2 left over. So he thought he would be smart and count by 13's."

"Yeah," says Rachel. "And he had 7 left over."

"Don't forget it says he has at least 80 and not more than 100 gold coins. Otherwise, it might be hard to figure out!" adds Rachel.

Help Sandra figure out how many gold coins Ol' Stinky has.

Please show how you found your answer.

What is Ol' Stinky? I'll give yer a hint. It starts with a P. It ends with an E. And there are 6 letters to it. Now go figger 'er out!

Don't forget to scribble how yer figgered out the number of gold coins. If yer don't, yer are an old smokin' rat.

Oh, and ain't ain't a word. In case yer didn't know!

Name: _____

The art teacher poured bags and bags of different shapes of noodles on the table. She told her class to use their imaginations and use the noodles to make pictures on the sheets of colored paper she had given them. Ava made a lion with 145 noodles. Erin made a snake with 32 noodles. Emily made a bird with 50 noodles. How many noodles did these 3 girls use in all?

The Sugar and Spice Bakery sold 581 donuts this week. They sold 211 chocolate-covered donuts, 185 cream-filled donuts, and 118 cinnamon donuts. The rest of the donuts they sold were the ones with candy sprinkles. How many donuts with candy sprinkles were sold that week?

$$12 - 6 + 8$$

Write the number that has exactly 15 ones.

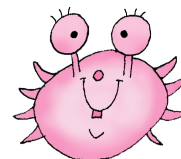
Round 1976 to the nearest hundred.

Erin is going to make cookies for all her friends on National Splurge Day. There will be 16 chocolate chips in each cookie! If Megan eats four cookies, how many chocolate chips will she eat?

David made little bags of bright yellow jellybeans for all the students in his class. He put yellow smiley face stickers on them. If there are 17 students in his class and he put 6 jellybeans in each bag, how many jellybeans did he use?

Rosa has 5 bags of lemon tea, 6 bags of green tea, and 8 bags of raspberry tea. She gave 3 bags of each tea to Emily. What fraction of the tea bags is left?

Circle the correctly spelled words.
ambulance, ambulance
balcony, balcanry
frolic, frolick



Name: _____

Cross off the number that does NOT belong. Hint: Look at movement of digits!

52566, 65256, 66525, 56652, 25665, 52566, 65256, 66525,
56652, 25665, 52566, 65256, 66525, 66525, 56652

Why does _____ not belong in the pattern?

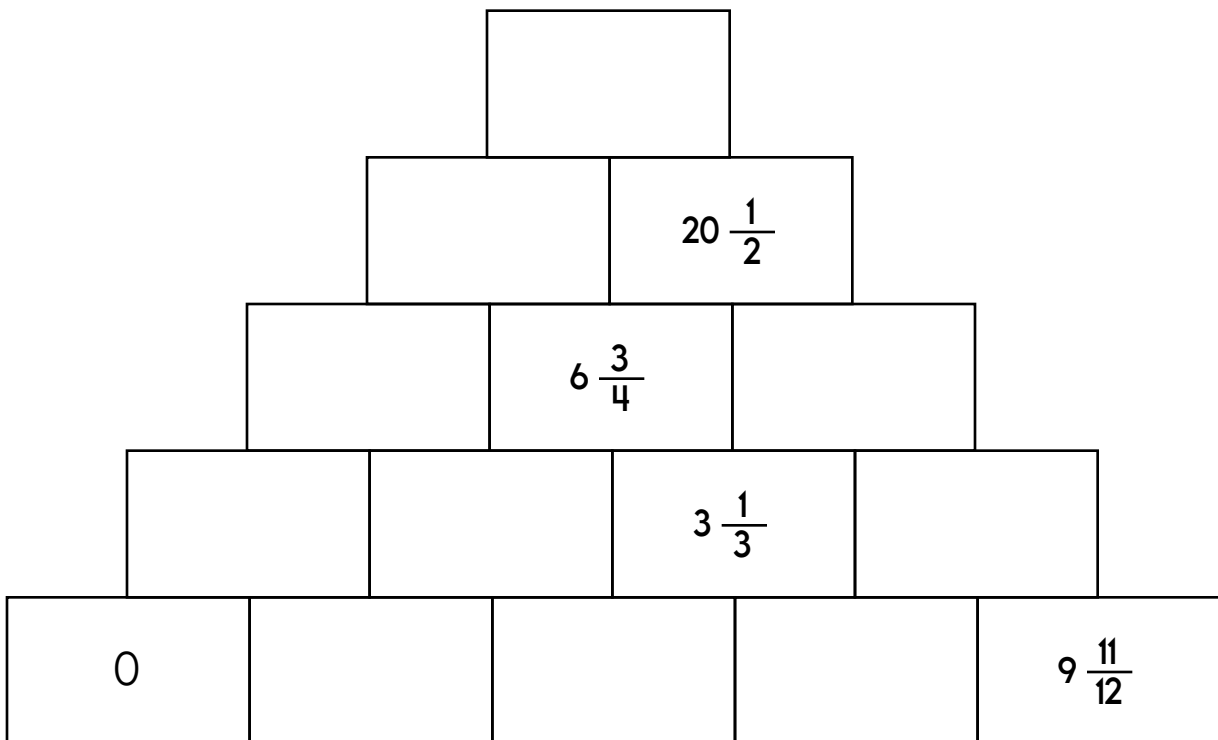
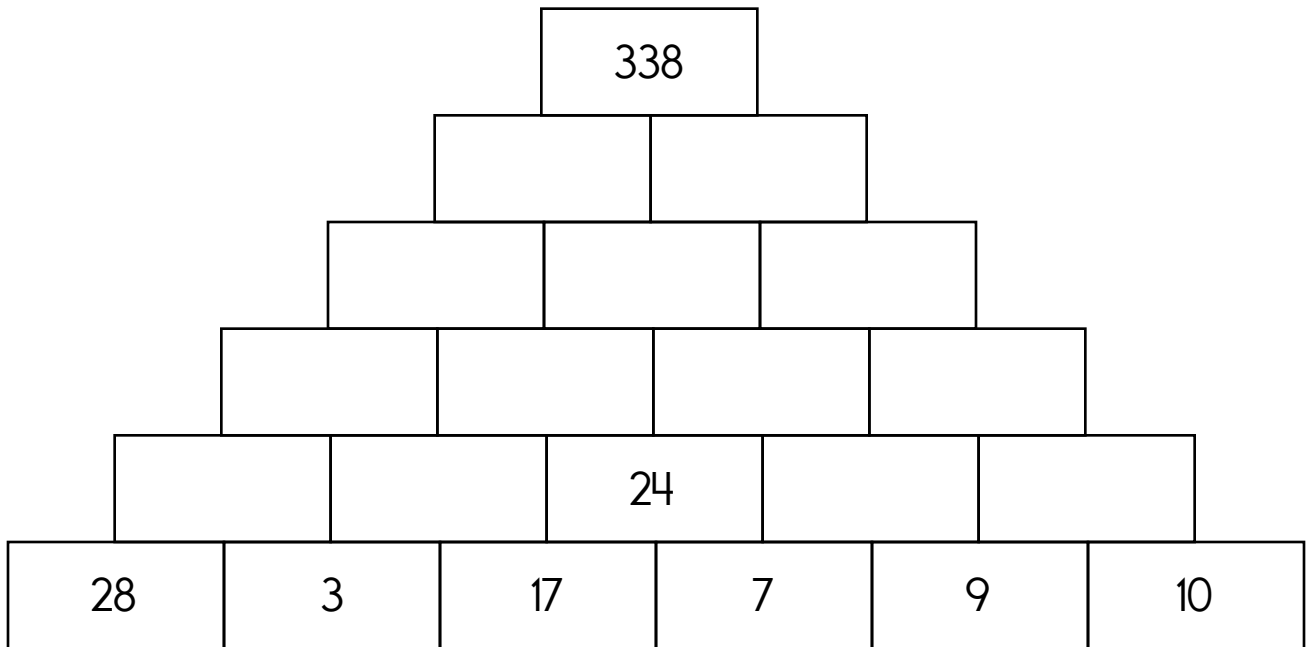
Cross off the number that does NOT belong.

8, 10, 15, 23, 34, 48, 65, 85, 101, 108, 134, 163, 195, 230, 268

Why does _____ not belong in the pattern?

Name: _____

The block above is the sum of the two blocks below. Fill in the missing blocks.



$$20 - 13 = \underline{\hspace{2cm}}$$

What number is one thousand more than 7,706?

$$2 \overline{)6}$$

Name: _____

Kultec, a young Maya boy, loved the chocolate drink his mother made for him. He would drink it every day if he could, but chocolate was hard to get. If the first chocolate drink was made in the year 934 B.C., how many years ago was the first chocolate drink made?

Eric and his sister were discussing who could make the best pastry. Each of them decided to make a favorite pastry and let their parents decide. Eric made pecan tarts. His sister baked a lemon truffle pie. Eric spent \$8.14 on the ingredients for his tarts. His sister spent \$5.93 on the ingredients for her lemon truffle pie. How much more did Eric spend than his sister?

There are 3 birthdays in our class for the month of November. Jacob, Max, and Megan all have birthdays. Megan is the last to celebrate. Her birthday is on the last day of the month. If you add the day numbers of the other birthdays, it equals the day number that Megan celebrates her birthday. The first person to celebrate is Jacob. His birthday is 18 days before the next birthday. On what day numbers are each of their birthdays?

Fill in the missing numbers.

$$\underline{\hspace{2cm}} \times 9 = 10 + 17$$

$$\underline{\hspace{2cm}} \times 7 = 21 + 63$$

$$\underline{\hspace{2cm}} \times 6 = 29 + 37$$

Name: _____



You have a playdate in 120 minutes. How many hours is that?

There are 4 groups of 5 rocks. How many rocks?

How many tens are in the number 80?

$$12 \times 6 =$$

$$(12 + 4) + 7$$

Name the shape with five sides and five angles.

Write the number that is one thousand less than 3,607.

$$456 + 8 =$$

$$5 + 9 - 12$$

Name: _____

$$35 \div 5 =$$

The number 46 is more than the number 9 by how much?

In the equation $27 \times 323 = 8,721$, which number is the product?

What number is halfway between 0 and 22?

How many tens are in the number 3,000?

What is the sum of 10 and 863?

Is 457 closer to 400 or 500?

Write the number that is one ten more than 7,419.

Is 23 a composite or a prime number?

Write the number that has exactly 4 tens.

How many hundreds are in the number 16,000?

5416, 6541, 1654, 4165,
5416, _____, 1654, 4165,
5416, 6541, 1654, 4165,
5416, 6541

If you exchange 100 dimes for dollars, then how many dollars would you get?

Round 155 to the nearest ten.

$$647 + 9 =$$

☐

I did page 15

☐I decided to skip this page
edHelper**Name:** _____

Julie and her three best friends all went out to dinner at Chili's. Julie's mom drove them and sat at a different table. The girls had a great time and had great food. They laughed about their day, planned a sleepover party for the next weekend, and talked about their favorite TV shows. They shared chips and salsa, each got her own hamburger, and then split a dessert. The chips and salsa cost \$4.00. Each burger was \$10.00. The chocolate molten cake they devoured for dessert was \$6.00. When the bill came, the girls split it equally. How much did each girl have to pay?

Show your work.

☐

I did page 16

☐I decided to skip this page
edHelper

Name: _____

Get a fidget spinner! Spin it.

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

$$35 \div \underline{\quad} = 7$$

Draw a small clock that shows 15 minutes past 6:00.

How many minutes are there from 2:15 p.m. until 2:30 p.m.?

Round 175 to the nearest ten.

Holly has 28 nickels. How much money is that?

How much greater is 174 than 45?

Emma bought a pack of six waters. It cost \$3.96. How much did each water cost?

Is 41 a composite or a prime number?

Name the shape with five sides and five angles.

46, 51, 58, 67, 78, 91,
_____, 123, 142, 163,
186, 211, 238

$$12 - 1 \times 9$$

Write the number that is one hundred less than 6,300.

☐

I did page 17

☐I decided to skip this page
edHelper

Name: _____

Spin again.

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

Double the number 8 three times.

Draw a small clock that shows 15 minutes past 9:00.

What is the sum of 6 and 57?

How many tens are in the number 90?

$$477 + 6 =$$

A, H, C, I, E, J, G, K,
_____, L

You need to add what to 49 to get 58?

Write the greatest possible 3-digit number using only 2 different numbers.

In the equation $30 \times 414 = 12,420$, which number is the product?

How many total legs are on 70 zebras.

Write the least possible 4-digit number without repeating any numbers.

What is the sum of 10 and 261?

$$30 \div 3 = 10$$

Write the number that has exactly 8 ten thousands.

You have a playdate in 240 minutes. How many hours is that?

Name: _____

1 centimeter = 10 millimeters

5 centimeters = 50 millimeters

100 millimeters = 10 centimeters

Draw a line to match each problem with the same answer.

70 millimeters •

• 20 millimeters

3 centimeters •

• 600
millimeters900
millimeters •

• 90 millimeters

70 centimeters •

• 700
millimeters

2 centimeters •

• 7 centimeters

60 centimeters •

• 900
millimeters

9 centimeters •

• 90
centimeters90
centimeters •

• 30 millimeters

Is 16 a composite or a
prime number?How many total legs are on
15 dogs.If you exchange 90 dimes
for dollars, then how many
dollars would you get?How many minutes are
there from 6:30 p.m. until
6:45 p.m.?99, 108, _____, 126, 135,
144, 153, 162, 171, 180 $35 \div 5 =$ Write the number that is
one ten more than 5,920.

What is 16 less than 1,899?

Is 27 a composite or a
prime number?

Name: _____

Approximately how many fewer books has Dr. Seuss written than Agatha Christie, expressed as a fraction? An exact answer is not needed.














Theodor Geisel, better known as Dr. Seuss, wrote at least 43 books. He has sold an estimated 500 million copies of his books. Agatha Christie, who wrote mystery novels, has written 85 books that have sold approximately 4 billion copies.

For example: Pam wrote 80 books this year. Jacob only wrote 9 books. Jacob wrote about $\frac{9}{80}$ as many books. That's about one-tenth or $\frac{1}{10}$.

Let's assume that Agatha Christie's books average 200 pages each and that Dr. Seuss's books average 30 pages each. How many more pages did Agatha Christie write than Dr. Seuss?

Name: _____


Puzzle:


	13			37
			13	52
				39
	13			49
48	53	39	37	+


Work Area:

	13			37
			13	52
				39
	13			49
48	53	39	37	+

















The sum for each column
and row is given.

 = _____

 = _____

 = _____


Puzzle:


				16
				22
				21
				26
25	13	17	30	+


Work Area:

				16
				22
				21
				26
25	13	17	30	+

The sum for each column
and row is given.

 = _____

 = _____

 = _____

 = _____

word root **fract** can mean **break**

fraction, fractional, fracture

☐

I did page 21

☐I decided to skip this page
edHelper

Name: _____

Get a fidget spinner! Spin it.

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

How many hours are there
from 5 a.m. to 4 p.m.?

$$9 - 2 + 3 - 4$$

Write this number:
5 hundreds, 4 thousands

12, 14, 16, 18, 20, 22, 24,
_____, 28

62, 76, _____, 104, 118,
132, 146, 160, 174, 188

double 900

Draw a small clock that
shows 20 minutes past 10:00.

Is 12 a composite or a
prime number?

What is the sum of 3 and
39?

Draw a small clock that
shows 25 minutes to 8:00.

Is 21 a composite or a
prime number?

Is 23 a composite or a
prime number?

☐

I did page 22

☐I decided to skip this page
edHelper

Name: _____

Spin again.

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

$$\begin{array}{r} 37 \\ - \quad 8 \\ \hline \end{array}$$

Write this number:
4 ones, 2 tens, 9 thousands

3 more than 763

4, 8, _____, 16, 20, 24,
28, 32

double 70

$$\begin{array}{r} 66 \\ + \quad 7 \\ \hline \end{array}$$

$$___ \div 9 = 2$$

If you exchange 100 dimes
for dollars, then how many
dollars would you get?

11, 22, 33, 44, 55,
_____, 77, 88

$$1 + (1 + 6)$$

$$\text{double } 30 =$$

$$(3 \times 2) + 2$$

Name: _____

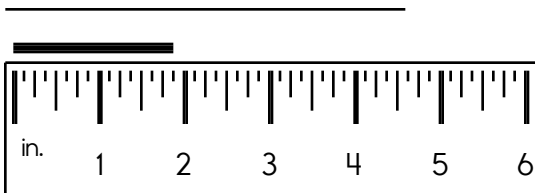
X		4	6	2	
	14		42		
	__x__	__x 4	__x 6	__x 2	__x__
				16	
	__x__	__x 4	__x 6	__x 2	__x__
6			36		
	6 x __	6 x 4	6 x 6	6 x 2	6 x __
1					6
	1 x __	1 x 4	1 x 6	1 x 2	1 x __
	14	28			42
	__x__	__x 4	__x 6	__x 2	__x__

The sum of two whole numbers is twenty. The difference between the two numbers is six. What are these two numbers?

The factors of 6 are 1 ____ 6

$$\begin{array}{r} 34 \\ - 27 \\ \hline \end{array}$$

Write the length in inches.



If $D = 2$, then what does $D + 3$ equal?



Name: _____

Decimals Review



Circle the correct answers.

Place
Value

6,938.217 =

TH	H	T	O	t	h	th
6	9	3	8	1	2	7

A. This is right.

B. This is wrong.

Fractions

$$\frac{77}{100} =$$

A. 7.7

B. .77

C. 0.7

Money

4 Hundreds, 9 Tens, 7 Ones,
1 Dime, 8 Pennies =

A. \$479.81

B. \$497.18

C. \$49.18

Name: _____

Complete.

$$7 \text{ pearls} = 3 \text{ balloons}$$

$$15 \text{ balloons} = 2 \text{ stars}$$

$$2 \text{ stars} = \underline{\hspace{2cm}} \text{ pearls}$$

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

rye-nthwette _____

yitgnhe-itne _____ (98)

vnetyritesh- _____ (37)

Name: _____

Jenna made a chocolate pie. She had to warm the chocolate until it melted. Then she had to let it cool to eighty-one degrees. If the chocolate melted at one hundred two degrees, how many degrees did it have to cool before it reached eighty-one degrees?

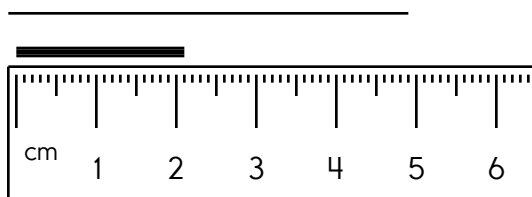
Mrs. Johnson took her best friend out for breakfast. They could choose either apple juice or orange juice to drink. They could choose bacon, ham, or sausage to have with their eggs. Make a tree diagram to show how many different combinations they can have.

Jason is having a cookout at his house. He likes autumn better than any other season. Every year he has a party on the first day of autumn. This year Jason's cookout begins at 5:00 p.m. It is 1:41 p.m. on the day of the party. How long will it be until the party begins?

Write a word to describe April.



Write the length in millimeters.



$$\begin{array}{r} 5 \\ \times 11 \\ \hline \end{array}$$

Make a pattern.

Start with 102.

Subtract 12.

_____, _____, _____, _____, _____, _____

$$56 - 13 = \underline{\hspace{2cm}}$$

Write the fraction for 0.78.

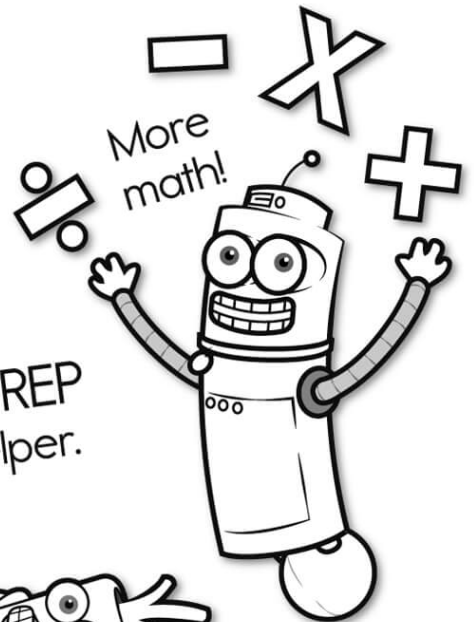
Write 395 in expanded notation.

$$\begin{array}{r} 78 \\ - 35 \\ \hline \end{array}$$

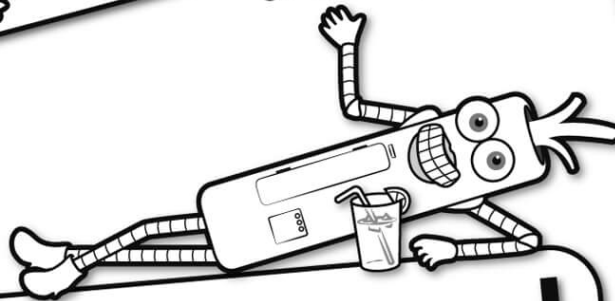
Name: _____

3	$+\frac{1}{2}$				$-\frac{1}{2}$		-8		$+\frac{1}{2}$
		+40		$+1\frac{1}{2}$					
	-11			$21\frac{1}{2}$		+46		$+\frac{1}{2}$	
$+3\frac{1}{2}$				+14		$+\frac{1}{2}$			
$+\frac{1}{2}$		-34		+5		-37		-7	18

24	+60		$-\frac{1}{2}$		+7		$+3\frac{1}{2}$		$+\frac{1}{2}$
	+15		$-5\frac{1}{2}$		-31		$-\frac{1}{2}$		$+1\frac{1}{2}$
-28					61				
	$+\frac{1}{2}$		-4	$61\frac{1}{2}$	$-\frac{1}{2}$		$+\frac{1}{2}$	$42\frac{1}{2}$	



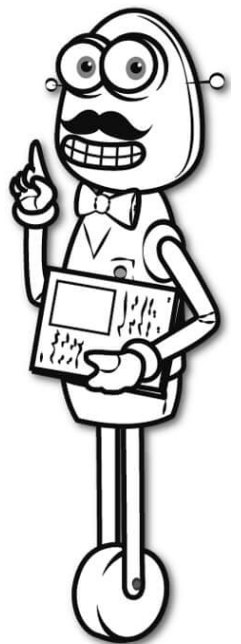
It's NO PREP
at edHelper.



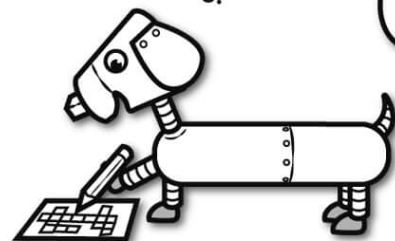
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