42.4	+52		-17.1		-11.8		-6.7		+18

Name: _____

Pick 24 to do: Skip 2 pages.

- ☐ page 1 ☐ page 7 ☐ page 13 ☐ page 19 ☐ page 25
- ☐ page 2 ☐ page 8 ☐ page 14 ☐ page 20 ☐ page 26
- ☐ page 3 ☐ page 9 ☐ page 15 ☐ page 21
- ☐ page 4 ☐ page 10 ☐ page 16 ☐ page 22
- ☐ page 5 ☐ page 11 ☐ page 17 ☐ page 23
- ☐ page 6 ☐ page 12 ☐ page 18 ☐ page 24

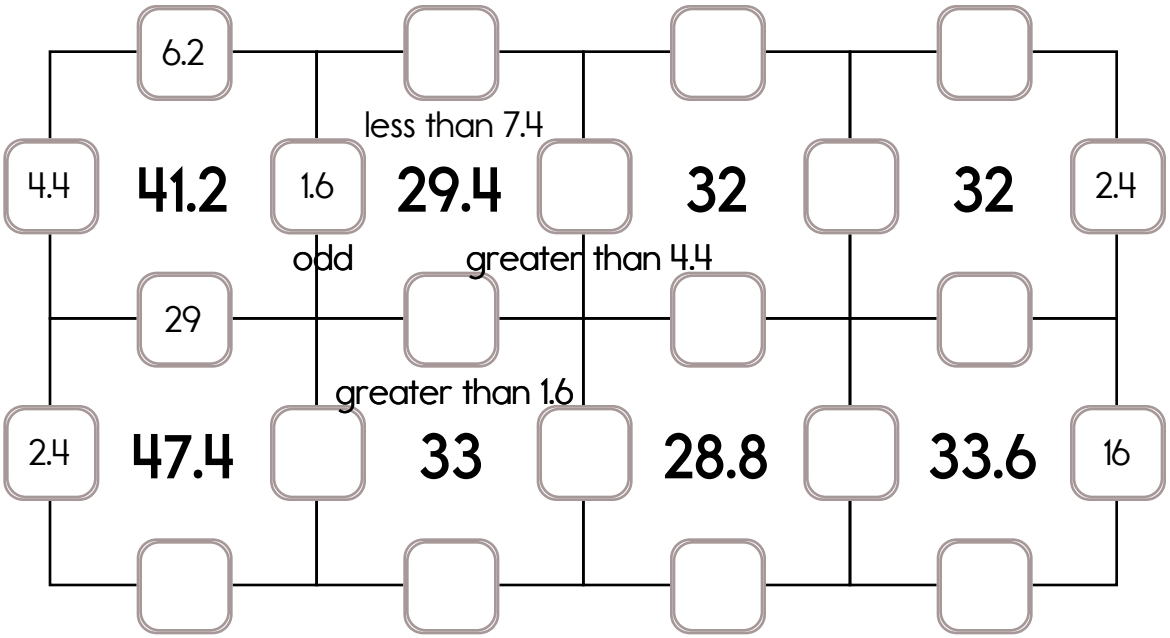
Challenge Math

Book 30

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: 15, 29, or 16.

The other three numbers have to all be DIFFERENT and must be from these: 9.8, 2.4, 7.4, 4.4, 3.8, 6.2, or 1.6.



49.8									+13
-6.6									-27.9
-7									+1.6
-4.5									-37.5
+5									+58
-9.4									+2
									86
+12									+8.2
	-7.2		+3.7		-23.1		+33		-40.3

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: _____

There is a beautiful butterfly park in Ontario, Canada. About 850,000 people visited the park last year to see the huge butterfly collection. What is the value of the digit "5" in the number 850,000?

Gavin bought a bag of candy. There were fifty-four pieces of candy in the bag. Some of it was red. Some of it was green. There were eighteen red pieces of candy. How many pieces of the candy were green?

Alex went to lunch with his father. His father ate fried chicken. Alex ate fried chicken, too. His father's lunch cost $7.65. Alex's lunch cost $6.51. How much did their lunches cost in all?

A book has 5 pages. Each page has 12 dimes. How many dimes in the book?

Is 15 a composite or a prime number?

40 ÷ ___ = 8

Jack and Gavin want to buy a book about knights and dragons. Jack has $8.22. Gavin has $1.71 less than Jack. How much money do they have together?

Alex was looking on the Internet for information about dinosaurs. The search engine brought up 12 pages of web sites. If there were 15 web sites on each page, how many web sites were there in all?

The 27 students in Mr. Garcia's class wrote notes to special people on Forget Me Not Day. They put pretty stickers on their notes. If each student used 13 stickers, how many stickers were used in all?

Round 192 to the nearest ten.

triple 33 =

Draw a small clock that shows 20 minutes past 8:00.

Name: _____

Maria made a poster for Eye Safety Day. She divided the poster into four parts. One part was blue. One part was red. One part was green. One part was yellow. She put an equal number of pictures in each part. She used 24 pictures. How many were in each part?

Gavin offered to bring the drinks for the class National Hugging Day party. There are twenty-three students in the class and one teacher. Drinks cost fifty-one cents each. Gavin bought one drink for each student and two drinks for the teacher. How much did the drinks cost?

Double the number 11 three times.

488 + 8 =

There are 2 groups of 3 rocks. How many rocks?

Hannah's mother is a police detective. She investigates crimes involving counterfeiting. She makes $33,363 per year. How much does she make each month?

Mr. Johnson made a pot of tea at his restaurant. The pot holds 18 servings of tea. If each serving is $4\frac{1}{2}$ oz, how many ounces of tea does the pot hold?

The Angel Thrift Shop was putting a new floor in one of the rooms. The room measured 10 feet wide and 12 feet long. If they use blue and white tiles that are each exactly 1 square foot, how many tiles will they need?

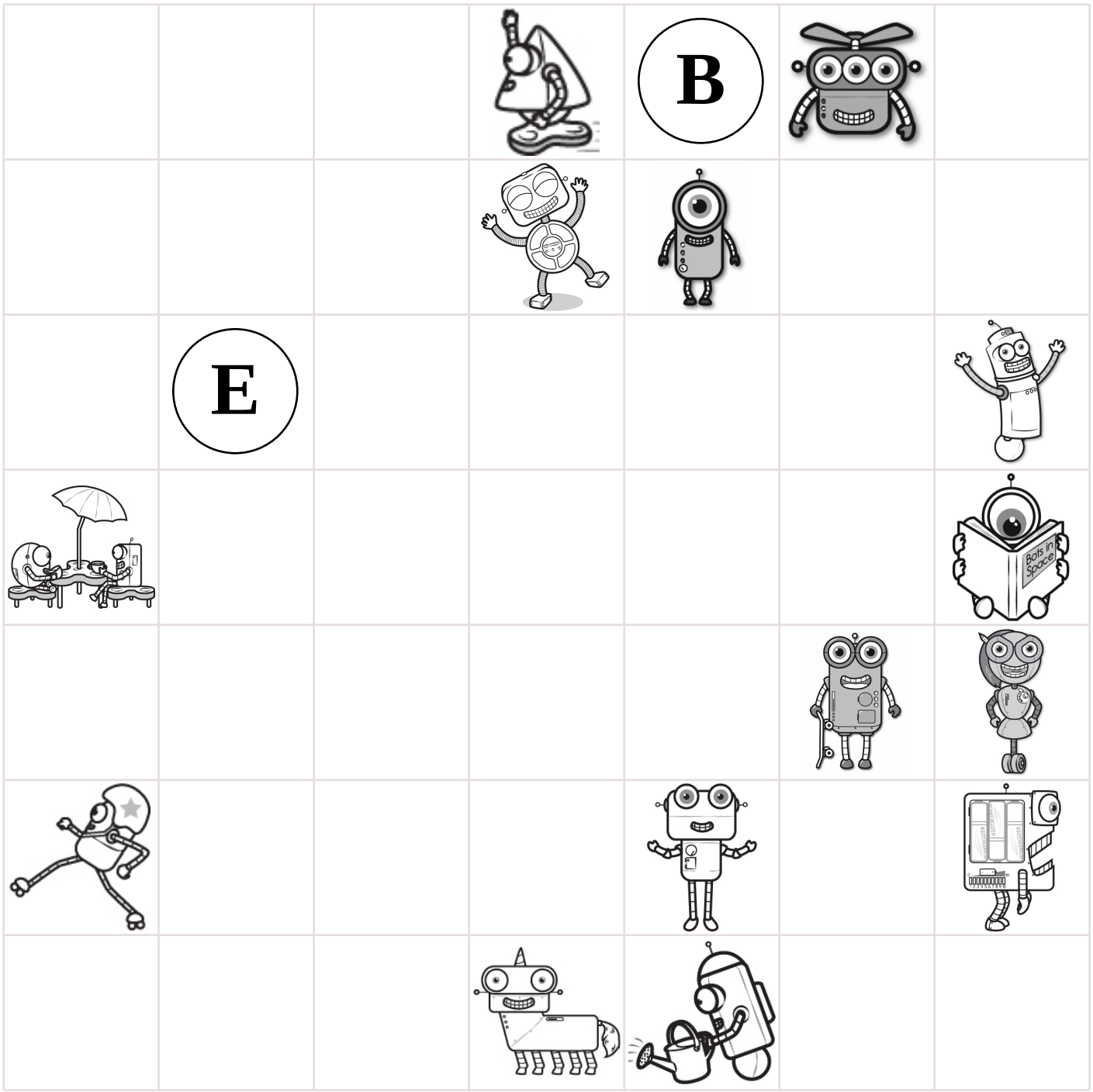
Write the least possible 4-digit number without repeating any numbers.

How many total legs are on 50 elephants.

Write a 4-digit even number.

Name: _____

Pick up all of the robots from the game board. Start on the **B** circle. Do not pick up your pencil. Draw a line going left, right, up, or down. **Every line must end on a robot or the E circle. No stopping on an empty box.** Try to collect all the robots and end your last line on the **E** circle. You can go through a robot more than once.



Didn't get them all? That's ok. This was hard. I missed only _____ robot/robots.

Name: _____

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

7 + 144 =	6 x 6 =	9 + 60 =	45 ÷ 9 =
40 ÷ 8 =	8 ÷ 2 =	40 ÷ 8 =	5 + 64 =
525 + 893 =	8 x 9 =	28 ÷ 7 =	4 ÷ 2 =
36 ÷ 9 =	11 x 8 =	539 + 178 =	637 + 492 =
4 x 9 =	5 + 146 =	12 ÷ 3 =	10 ÷ 5 =
10 ÷ 2 =	532 + 886 =	520 + 197 =	21 ÷ 7 =
9 + 79 =	12 x 11 =	8 + 137 =	2 + 143 =
6 x 12 =		12 ÷ 4 =	
8 + 124 =		658 + 471 =	

What is the sum of 10 and 193?	1 x 9 + 8	How much greater is 179 than 49?
Find the product of 6 and 4.	How many minutes are there from 3:00 p.m. until 3:45 p.m.?	11 + 9 - 5

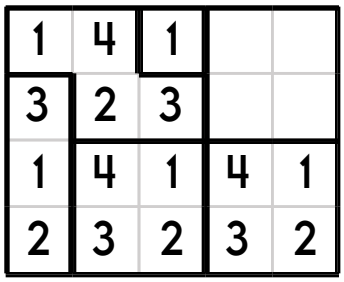
Name: _____

Fill in the missing numbers.

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

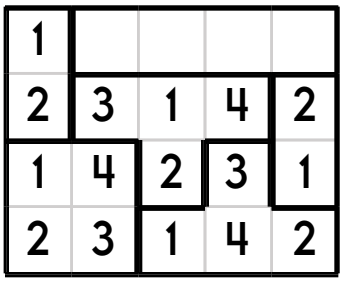
Dark lines surround a block. Numbers to use in a block:

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.



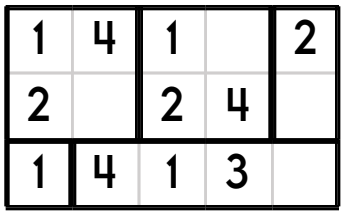
An entire block with 4 spaces is blank. Since the block is 4 spaces it uses the numbers 1-4.

1 3 2 4



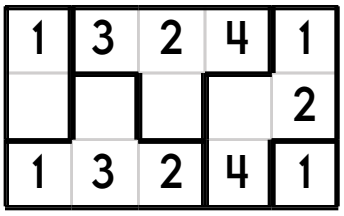
An entire block with 4 spaces is blank. Since the block is 4 spaces it uses the numbers 1-4.

1 4 3 2



Hint - These numbers are missing:

3 3 1 2



Hint - These numbers are missing:

2 3 4 1

Name: _____

Fill in the missing numbers.

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

	1	3	
3		4	2
	1		1
3	2		2

Hint - These numbers are missing:

4 4 2 1 3 4

	2		1
3	1		2
	2	4	1
	1	3	

Hint - These numbers are missing:

4 3 2 3 4 4

1		2		1
2			3	2
		2	4	

Hint - These numbers are missing:

1 3 3 1 4 4 1

1				
3	4	1	4	3
	2			1

Hint - These numbers are missing:

1 2 2 2 1 3 3

What is ten more than 54?

$$\begin{array}{r} 15 \\ -\ 9 \\ \hline \end{array}$$

How much is this?

word root **gress** can mean **step** **progress, digress**

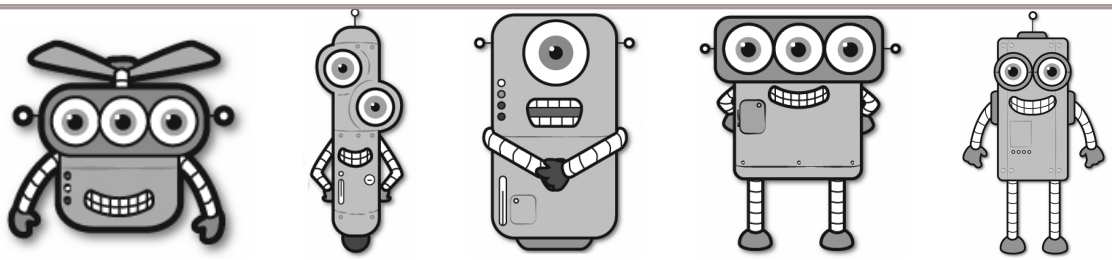
Name: _____

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: _____



April David Jason Erin Anna

Facts

Anna is four times as old as April.

Jason is forty-seven years older than April.

April is two years old.

Erin is thirteen years older than David.

David is fifty-one years older than April.

How old is April? _____

How old is David? _____

How old is Jason? _____

How old is Erin? _____

How old is Anna? _____

What place value does the 6 have in 69,478?

_____

Expand the number.

1,827 = 1000 + _____ + _____ + _____

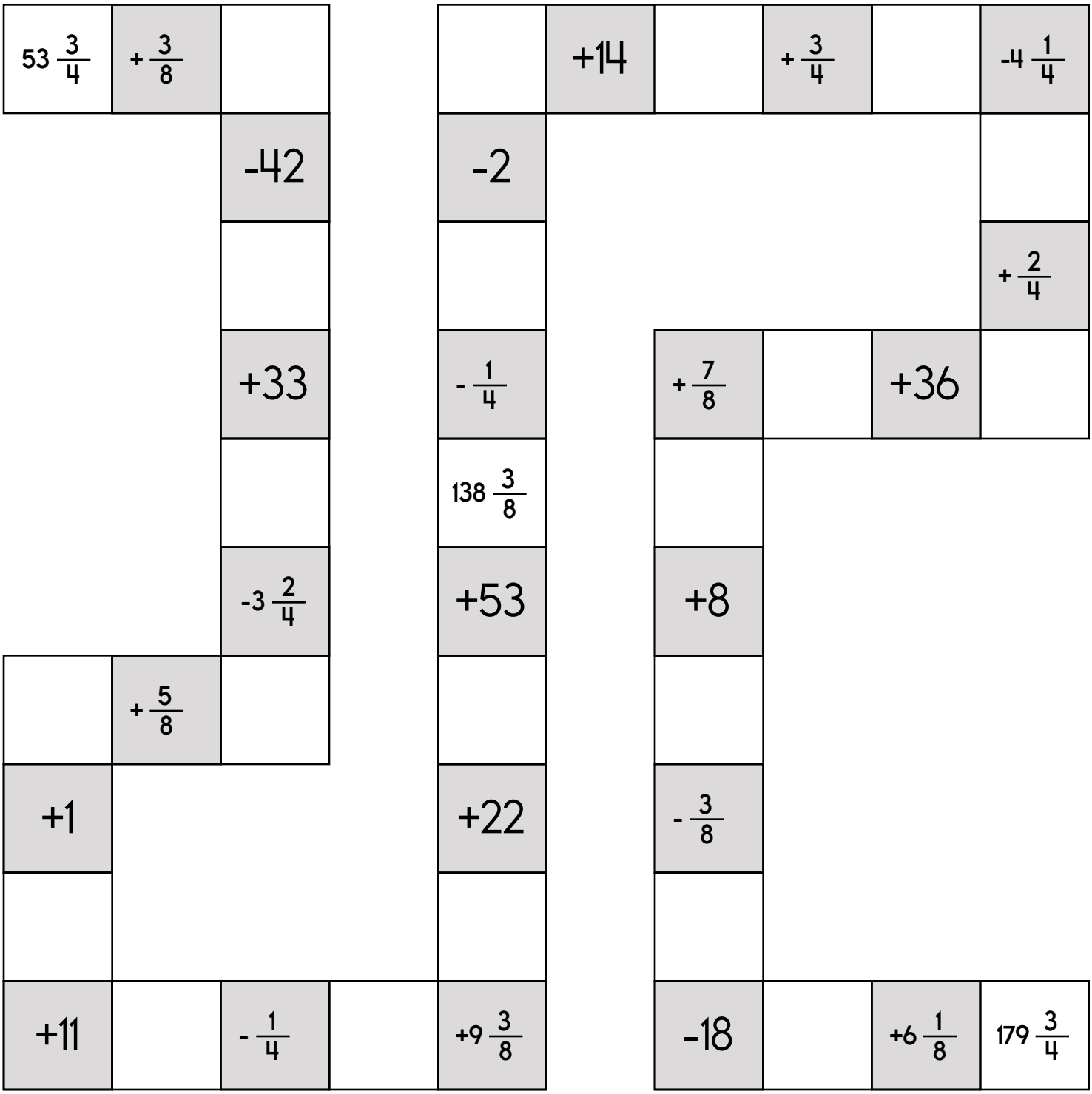
Make a pattern.
Start with 28.
Add 7.

_____ , _____ , _____ , _____ , _____ , _____

How many hours are in three days?

_____

Name: _____



What is the greatest common factor of 2 and 16?

What is the greatest common factor of 3 and 12?

What is the greatest common factor of 4 and 8?

Name: _____

"Fine," said Sara to her brother Lucas. "I'll let you have my Legos for a dollar, but you will have to walk the dog for me this week."

"Deal!" said Lucas. He went to his room to get a dollar bill, but all he had was coins. "How did that happen?" he thought. But he started counting his coins.

He counted 5 dimes, 20 pennies, and 10 nickels. Does he have enough money?

If he does, what should he give Sara?

If he does not, how much money does he need?

Max is bored, so he decides to start coloring the outside sidewalk. Would you believe every 15 minutes he goes through 10 pieces of chalk. That's a lot of chalk! After 2 hours his arms are so tired he quits. How much chalk did Max use?

Name: _____

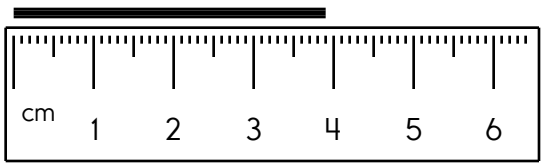
Jacob did not believe in bad luck. He broke 13 mirrors. He walked under 13 ladders. He stepped on 13 cracks in the sidewalk. He let 13 black cats walk in front of him. On his way home from school he found 13 dimes. How many more dimes does he need to have $2.60 worth of dimes?

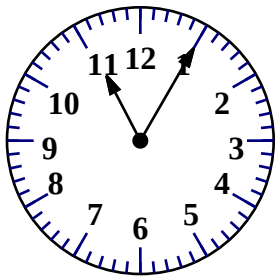
Justin lives on a dairy farm. He takes care of 16 of the cows by himself. When he feeds them, he puts enough grain in the bucket for 2 cows. He empties it, and then goes back for enough for 2 more cows. How many times does he have to fill the bucket to feed all the cows?

Mr. Martinez bought 6 gallons of ice cream. He could make 12 root beer floats from each gallon. If he made 50 floats, what decimal shows how much ice cream he used? Round your answer to the nearest tenth of a gallon.

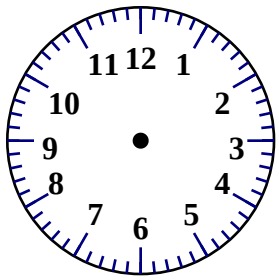
Write the length in centimeters.

_____





current time



25 minutes later

The factors of 6 are 1 ____ ____ 6

What is the value of the BIG digit?

18,4**9**6

_____

$4\overline{)36}$ $9\overline{)27}$

$3\overline{)18}$ $4\overline{)28}$

Name: _____

Pumpkins are on sale for $2.26 per pound. David bought a 2-pound pumpkin. Jason bought a 7-pound pumpkin. How much more did Jason pay?

Write the number that has exactly 3 millions.

Find the product of 8 and 4.

24 ÷ ___ = 6

(10 x 2) - 1

triple 53 =

What is the sum of 10 and 385?

Write 916 in expanded notation.

_____

Insert punctuation marks into this sentence.

Patrick Henry told the Virginia Convention Give me liberty, or give me death

Name: _____

Kevin is 3 years older than Anna. Sarah is 10 years younger than Kevin. Gavin is 2 years older than Sarah. Sarah is 13 years old.

How old is everyone else?

What is the sum of 6 and 89?

419 + 8 =

A book has 4 pages. Each page has 11 dimes. How many dimes in the book?

How many hundreds are in the number 280,000?

Is 25 a composite or a prime number?

___ ÷ 12 = 8

Cross out all of the prepositional phrases in the sentence.

I came to school at the crack of dawn to take a test about fractions.

Insert a comma in the appropriate place in this sentence.

Charles Dickens wrote many books but he never finished his last one.

Name: _____

Robert couldn't believe his eyes! There were tumbleweeds everywhere! He and his family had moved to South Dakota last week. It had been very windy last night. Now there were fourteen tumbleweeds against the back fence, twenty-four tumbleweeds in the front yard, and eight tumbleweeds against the barn. How many tumbleweeds were there in all?

Mr. Robinson is trying the latest fad diet. He has to choose one food from each of three lists. There are six vegetables on the first list, two meats on the second list, and three fruits on the third list. How many different combinations of foods are there?

How many tens are in the number 90,000?

Write the number that is one thousand less than 4,119.

In the equation 30 x 407 = 12,210, which number is the product?

Ms. King is a server at the Metro Grill. Last week she made $143.40 in salary plus $224.47 in tips. Twenty-one dollars was deducted from her pay for her uniform. How much money did she have left?

Nathan bought a pack of paper for $2.88 and a pack of envelopes to make cards for some of the people in his neighborhood who don't get to go out often. He spent $6.96 in all. Write an equation to find out how much the envelopes cost. Solve it.

Jack's mother was worried. Jack had been grouchy for 2 days, and she didn't know why. If Jack was grouchy for every minute of the three days, how many minutes was he grouchy?

Name: _____

Cross off the letter that does NOT belong.

I, H, K, L, I, M, J, O, K, Q, L, S, M

Why does _____ not belong in the pattern?

Cross off the number that does NOT belong.

45917, 59174, 91745, 17459, 45917, 74591, 45917, 59174,

91745, 17459, 74591, 45917, 59174, 91745, 17459

Why does _____ not belong in the pattern?

☐ I did page 17 ☐ I decided to skip this page

edHelper

Name: _____

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

There are 4 groups of 5 rocks. How many rocks?	Write a 2-digit even number.	Write the greatest possible 4-digit number without repeating any numbers.
Round 163 to the nearest ten.	What is 15 less than 299?	Round 765 to the nearest hundred.
B, G, _____, Q, V	What number is halfway between 0 and 18?	You need to add what to 45 to get 54?
Emily gave out a survey. The answers she got back were 8, 27, and 31. What is the range of these numbers?	double 32 =	Draw a small clock that shows 20 minutes past 10:00.

☐ I did page 18 ☐ I decided to skip this page

edHelper

Name: _____

Spin again. **I needed to spin _____ time(s) to finish.**

Write the number that is one ten more than 7,248.

The number 77 is more than the number 9 by how much?

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

7, 2, 2, 2, 2, 7, 7, 7, 2, 2, 2, 2, 7, 7, _____, 7, 7, 2, 2, 2, 2, 7, 7, 7, 7, 7, 7, 7

Write the number that has exactly 8 hundred thousands.

Max bought 4 dozen cupcakes for a party. How many cupcakes did he buy?

7 x 11 x 12

Write the greatest possible 4-digit number using only 2 different numbers.

6, 8, 10, 12, 14, _____, 18, 20, 22, 24

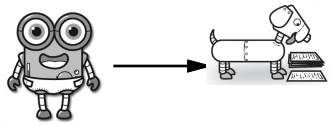
S, X, X, S, X, X, _____, X, X, S, X, X, S, X, X

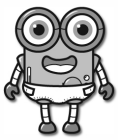
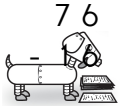
32, 40, 48, 56, _____, 72, 80

10 + (7 + 9)

Name: _____

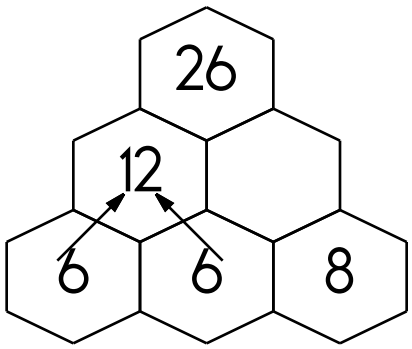
Help Robot find Rover. Make a path of increasing differences. You can only move to a box with a larger difference. Draw a line to show your path.

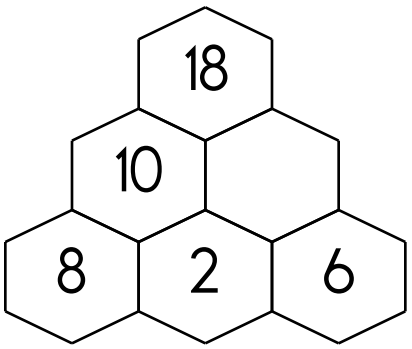


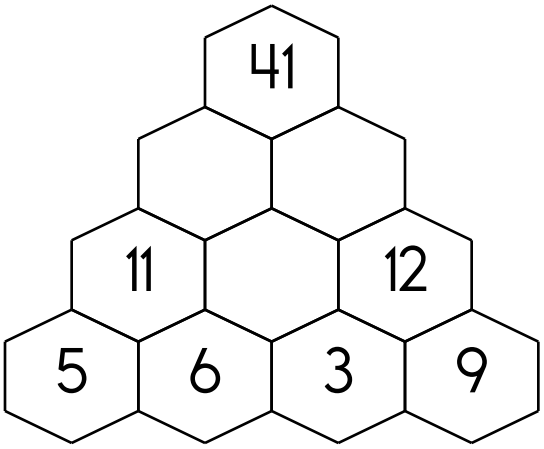
	97 - 93	85 - 79	48 - 39	91 - 80	25 - 13	57 - 44	49 - 34	97 - 63
76 - 23	52 - 13	43 - 15	77 - 51	59 - 35	94 - 75	66 - 48	51 - 35	79 - 12
92 - 57	74 - 42	89 - 58	56 - 33	95 - 88	56 - 38	65 - 62	51 - 25	45 - 40
82 - 43	73 - 13	68 - 24	41 - 21	37 - 24	70 - 44	69 - 46	98 - 16	60 - 19
53 - 11	82 - 39	86 - 41	66 - 41	97 - 25	85 - 32	57 - 11	57 - 31	88 - 63
62 - 34	82 - 13	85 - 38	69 - 21	79 - 29	62 - 11	68 - 15	69 - 13	91 - 34
88 - 37	54 - 30	58 - 23	26 - 18	86 - 33	44 - 35	95 - 39	77 - 47	90 - 32
72 - 48	38 - 30	74 - 41	50 - 17	43 - 18	75 - 27	69 - 58	74 - 64	76 - 

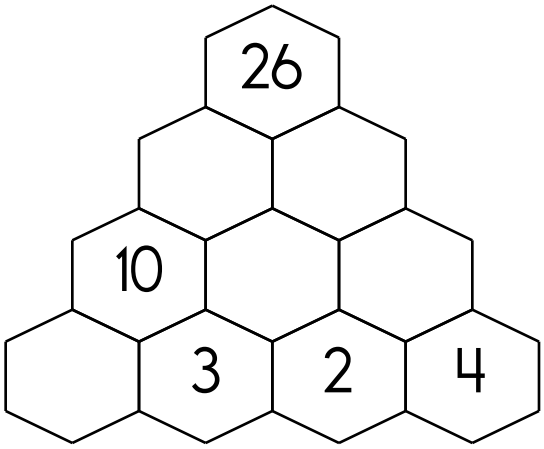
Name: _____

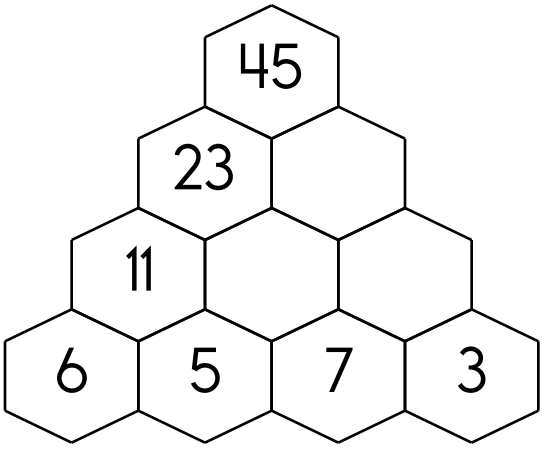
Fill in the blanks by adding the two numbers below each hexagon.

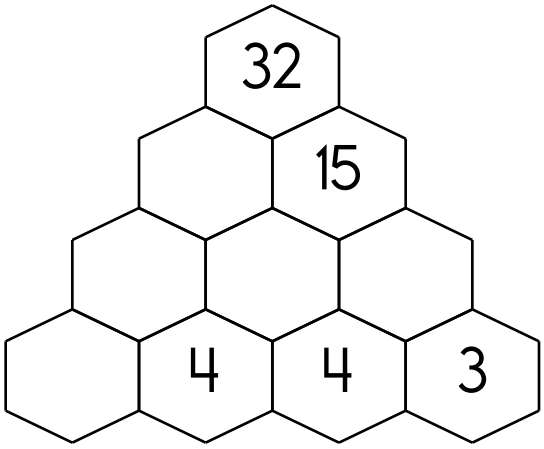










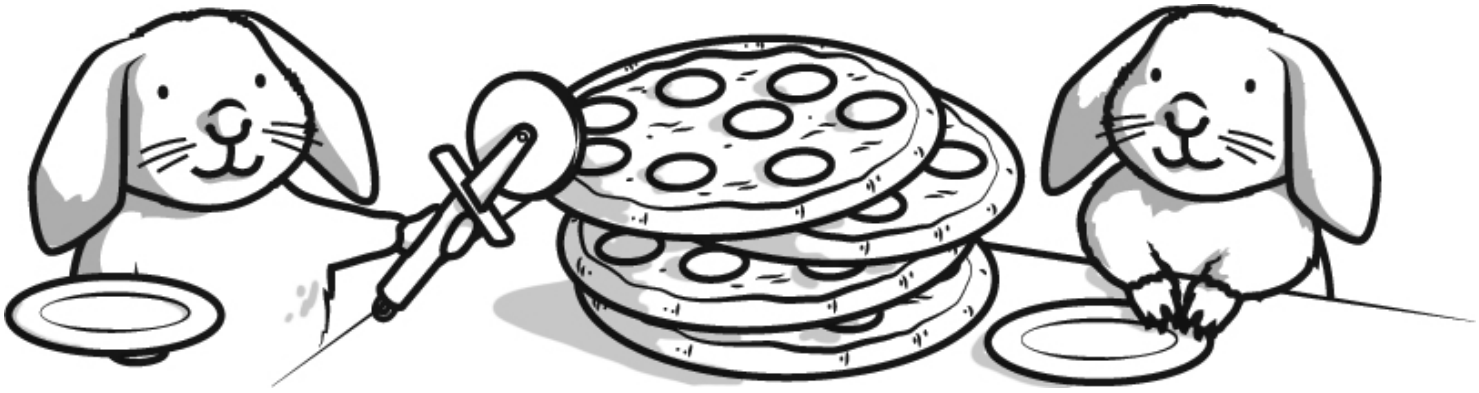


Ava bought a pack of six waters. It cost $4.01. How much did each water cost?

How many tens are in the number 90?

15 ÷ 3 =

Name: _____



Write your own math problem here.

Ask the person who helped you to try to solve your problem.

Name: _____

Find the missing numbers. These both have the same rule. What is the rule?

If

1 , 3 = 3

2 , 8 = 16

3 , 12 = 36

4 , 17 = 68

Then

5 , 22 = ?

If

5 , 5 = 25

6 , 9 = 54

7 , 14 = 98

8 , 17 = 136

Then

9 , 22 = ?

Complete each pattern. Write what the rule is.

10, 13, 19, 28, _____, _____, 73, 94, 118, 145, 175, 208, 244

29, _____, 38, 47, _____, _____, 92, 113, 137, 164, 194

Name: _____

The digits in a 4-digit number add up to 32. The tens digit is 5. Can you name the number?

Is there only one possible answer?

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

tihrex-yest _____

yeietnnr-the _____ (93)

i-nittynehr _____ (39)

☐ I did page 24 ☐ I decided to skip this page

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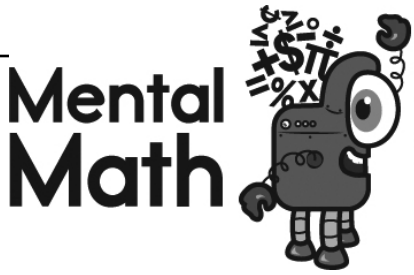
Name: _____

Only use a pencil to write the numbers on the blank lines. You do not need any scrap paper! Solve it in your head. If you forget a number, then start over. Cool, huh?



A	B	C	D
imagine 2 in your head	imagine 7 in your head	imagine 6 in your head	imagine 9 in your head
multiply 4	subtract 4	double it	multiply 11
subtract 2	add 9	subtract 8	add 8
	add 5	add 2	subtract 8
	double it	add 6	
	subtract 8		
	Add the tens digit to the ones digit.		
Write the number.	Write the sum.	Write the ones digit.	Write the ones digit.
____	____	____	____

What is the sum?

A + B + C + D

____ ____

Wow! Great job! That's the answer, but do you know how to SPELL the number?

____ ____ ____ n ____ ____ - ____ ____ ____ ____ e

1 after 18 _____	5 before 14 _____	9 before 15 _____
4 after 16 _____	8 before 12 _____	7 before 11 _____
5 after 19 _____	6 before 18 _____	4 before 16 _____

Name: _____

Mrs. Miller took her two kids to lunch. Mrs. Miller and her two kids each had the lunch combo meal with grilled cheese sandwiches, pasta salad, and tea. If the lunch combo meal was $4.28 each, how much did Mrs. Miller pay in total?

Mr. Smith bought 2 !FS!^3^4!FE! pounds of ham to make sandwiches for Police Week lunch in the park. The ham cost $3.53. What was the cost of the ham per pound? (Round your answer off to the nearest cent.)

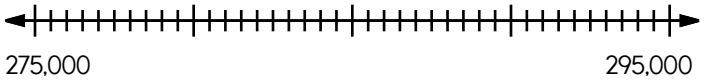
Amy bought a book about roses for her teacher for Teacher Appreciation Week. The book cost $10.69. The clerk added 7% for tax. What was the total cost of the book?

Name: _____

How many fifths are in 4?

_____

Locate where to put the number 291,000 and label the point F.

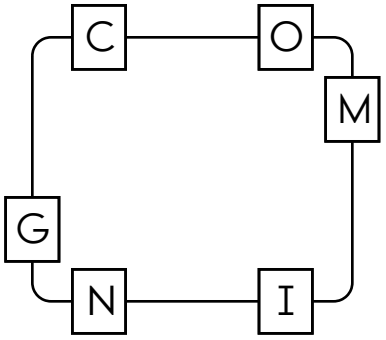


Calculate the sum of 12, 9, and 21.

_____

$$\begin{array}{r} 66 \\ -\ 35 \\ \hline \end{array}$$

Write the hidden word. Start at one letter and then move either left or right.



_____

Can you think of a five-letter word that has the vowel I in it?

_____

If ☐ = 4, then ☐ - 2 = _____

$8\overline{)16}$

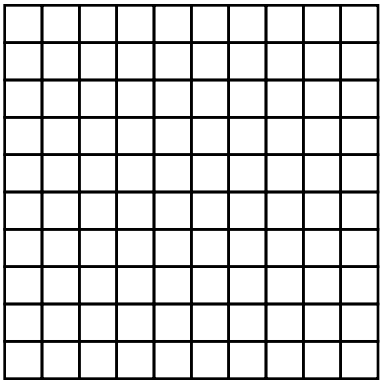
Which is longer: three feet or thirty-one inches?

_____

How many gallons are equal to 56 pints?

_____

Color 0.78.



$76 + 2 =$ _____

Write the fraction for 0.58.

_____

$3\overline{)24}$

Write the number for eight hundred six thousand, five hundred ninety-seven.

_____

Which is larger, 0.7 or 0.5?

_____

$$\begin{array}{r} 39 \\ +\ 23 \\ \hline \end{array}$$

$$\begin{array}{r} 61 \\ +\ 44 \\ \hline \end{array}$$

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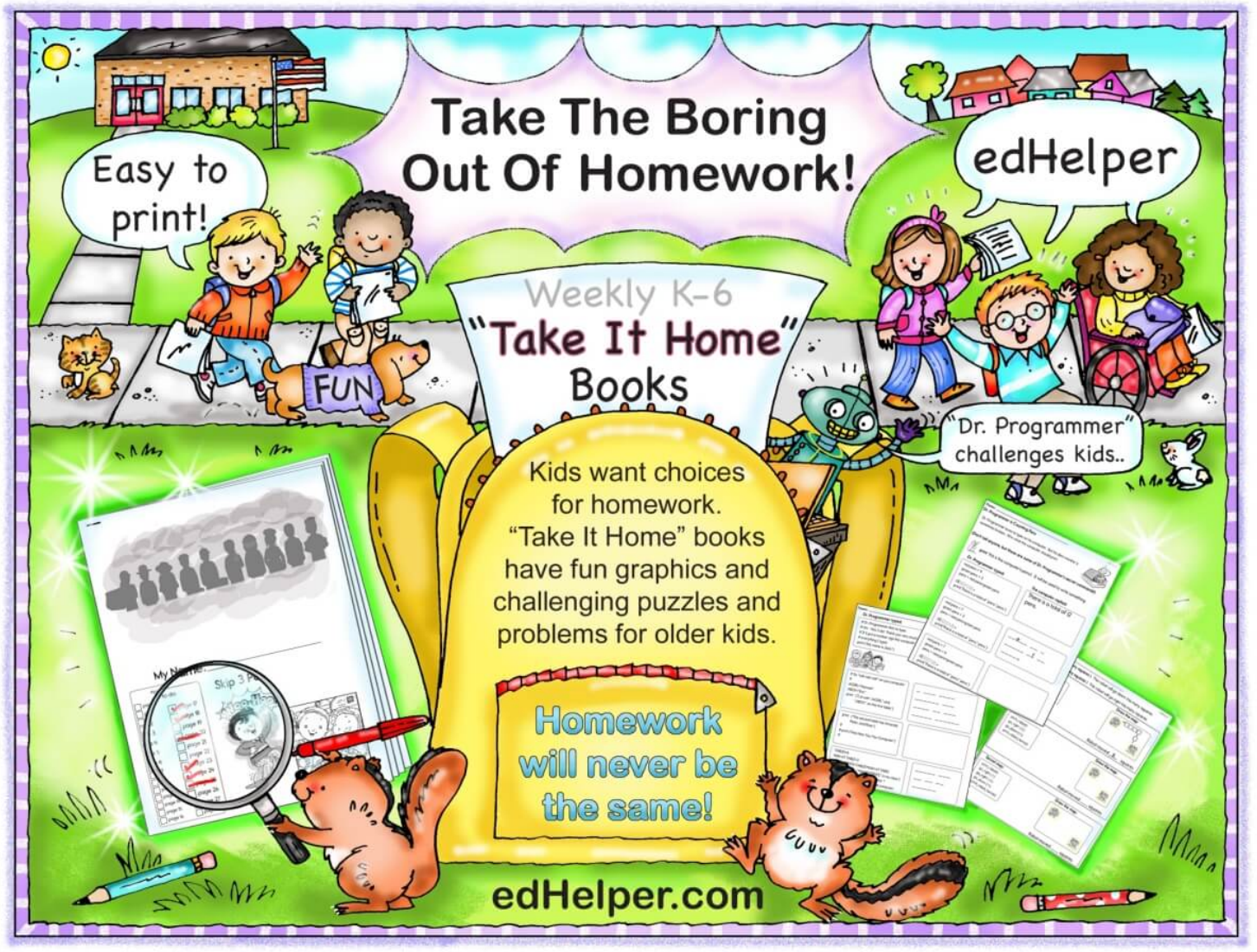
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