

Name: \_\_\_\_\_

Every Friday after school, Holly goes to her favorite toy store where they sell squishies. All of the squishies are the same price, and every Friday she has just enough money to buy 12 squishies. She is given back 24 cents in change after she purchases her 12 squishies, and she goes home to find someone to play with. If only she had 99 more cents, she could purchase another squishy!

Today, she picked her 12 squishies as usual.

"Sorry," says Jenny who is running the cash register at the checkout. "You don't have enough money."

"What? Let me check," says Holly as she checks her money. "This is the same amount as I give you each week."

"I know," replies Jenny. "But we had a small price increase of 10% on the squishies. Unfortunately, you can't buy as many as you usually do."

How many squishies does Jenny need to put back?

Show your work.

Draw a squishy when you are done to celebrate your brilliant math skills. Or your brilliant guessing skills! Squishy UP!

Name: \_\_\_\_\_

$$\begin{array}{c} \bigcirc \\ \text{63} \\ \times \\ \begin{array}{cc} \bigcirc & \bigcirc \\ 9 & 7 \end{array} \end{array}$$

$$\begin{array}{c} \bigcirc \\ \times \\ \begin{array}{cc} \bigcirc & \bigcirc \\ 8 & 10 \end{array} \end{array}$$

$$\begin{array}{c} \bigcirc \\ \times \\ \begin{array}{cc} \bigcirc & \bigcirc \\ 8 & 4 \end{array} \end{array}$$

$$\begin{array}{c} \bigcirc \\ \times \\ \begin{array}{cc} \bigcirc & \bigcirc \\ 5 & 2 \end{array} \end{array}$$

$$\begin{array}{c} \bigcirc \\ \times \\ \begin{array}{cc} \bigcirc & \bigcirc \\ 9 & 2 \end{array} \end{array}$$

$$\begin{array}{c} \bigcirc \\ \times \\ \begin{array}{cc} \bigcirc & \bigcirc \\ 8 & 8 \end{array} \end{array}$$

$$\begin{array}{c} \bigcirc \\ \times \\ \begin{array}{cc} \bigcirc & \bigcirc \\ 7 & 11 \end{array} \end{array}$$

$$\begin{array}{c} \bigcirc \\ \times \\ \begin{array}{cc} \bigcirc & \bigcirc \\ 7 & 11 \end{array} \end{array}$$

$$\begin{array}{c} \bigcirc \\ \text{271} \\ + \\ \begin{array}{cc} \bigcirc & \bigcirc \\ 205 & \end{array} \end{array}$$

$$\begin{array}{c} \bigcirc \\ \text{859} \\ + \\ \begin{array}{cc} \bigcirc & \bigcirc \\ & 18 \end{array} \end{array}$$

$$\begin{array}{c} \bigcirc \\ \text{1044} \\ + \\ \begin{array}{cc} \bigcirc & \bigcirc \\ & 67 \end{array} \end{array}$$

$$\begin{array}{c} \bigcirc \\ \text{383} \\ + \\ \begin{array}{cc} \bigcirc & \bigcirc \\ 345 & \end{array} \end{array}$$

$$\begin{array}{c} \bigcirc \\ \text{125} \\ + \\ \begin{array}{cc} \bigcirc & \bigcirc \\ & 15 \end{array} \end{array}$$

$$\begin{array}{c} \bigcirc \\ \text{443} \\ + \\ \begin{array}{cc} \bigcirc & \bigcirc \\ 368 & \end{array} \end{array}$$

$$\begin{array}{c} \bigcirc \\ \text{541} \\ + \\ \begin{array}{cc} \bigcirc & \bigcirc \\ 471 & \end{array} \end{array}$$

$$\begin{array}{c} \bigcirc \\ \text{1016} \\ + \\ \begin{array}{cc} \bigcirc & \bigcirc \\ & 60 \end{array} \end{array}$$

$$\begin{array}{r} 592 \\ - 42 \\ \hline \end{array}$$

$$\begin{array}{r} 396 \\ - 15 \\ \hline \end{array}$$

$$\begin{array}{r} 156 \\ - 77 \\ \hline \end{array}$$

$$\begin{array}{r} 892 \\ - 32 \\ \hline \end{array}$$

$$\begin{array}{r} 374 \\ - 37 \\ \hline \end{array}$$

Name: \_\_\_\_\_



$391 - \underline{\quad} = 312 \quad \underline{\quad} - 78 = 499$

$\underline{\quad} - 72 = 324 \quad 919 - \underline{\quad} = 833$

$574 - \underline{\quad} = 499 \quad \underline{\quad} - 55 = 191$

$\underline{\quad} - 77 = 378 \quad 384 - \underline{\quad} = 292$

$$\begin{array}{r} 218 \\ - 26 \\ \hline \end{array}$$

$$\begin{array}{r} 601 \\ - 29 \\ \hline \end{array}$$

$$\begin{array}{r} 170 \\ - 80 \\ \hline \end{array}$$

$$\begin{array}{r} 161 \\ - 50 \\ \hline \end{array}$$

$$\begin{array}{r} 890 \\ - 53 \\ \hline \end{array}$$

$$\begin{array}{r} 343 \\ - 40 \\ \hline \end{array}$$

$$\begin{array}{r} 294 \\ - 79 \\ \hline \end{array}$$

$$\begin{array}{r} 809 \\ - 73 \\ \hline \end{array}$$

$$\begin{array}{r} 243 \\ - 25 \\ \hline \end{array}$$

$$\begin{array}{r} 189 \\ - 50 \\ \hline \end{array}$$



$8 \times 6 =$

$4 \times 10 =$

$7 \times 2 =$

$10 \times 4 =$

$3 \times 12 =$

$2 \times 11 =$

$9 \times 8 =$

$8 \times 3 =$

$6 \times 11 =$

$6 \times 12 =$

$7 \times 8 =$

$10 \times 11 =$

Rewrite  $16 + -11$ 

$\underline{\quad} - \underline{\quad} = \underline{\quad}$

$12 - 1 = \underline{\quad}$

$12 + -1 = \underline{\quad}$

$18 - 15 = \underline{\quad}$

$18 + -15 = \underline{\quad}$

Name: \_\_\_\_\_

Megan and Erin prefer to use the latest computers to do their assignments. They believe this will keep them on the cutting edge of technology. They are working on a report taken from a survey about how many people feel comfortable using a computer. According to the result, only 38% of people think they have average or better computer skills. If that is true, how many of the thirty students in their class feel that they have lower than average computer skills?

A roll of  $\frac{1}{2}$ -inch wide masking tape costs \$0.45 per yard. A roll of  $\frac{3}{4}$ -inch wide masking tape costs \$0.97 per yard. How much more does a 60 yard roll of  $\frac{3}{4}$ -inch wide masking tape cost than a roll of  $\frac{1}{2}$ -inch wide tape?

Robert took a big bowl from the kitchen to see what kind of fun party mix he could create. He added  $\frac{1}{2}$  cup of Cheerios,  $\frac{3}{4}$  cup of raisins,  $\frac{1}{3}$  cup of Goldfish crackers, and  $\frac{2}{7}$  cup of pretzels. How many cups of food are now in the bowl?

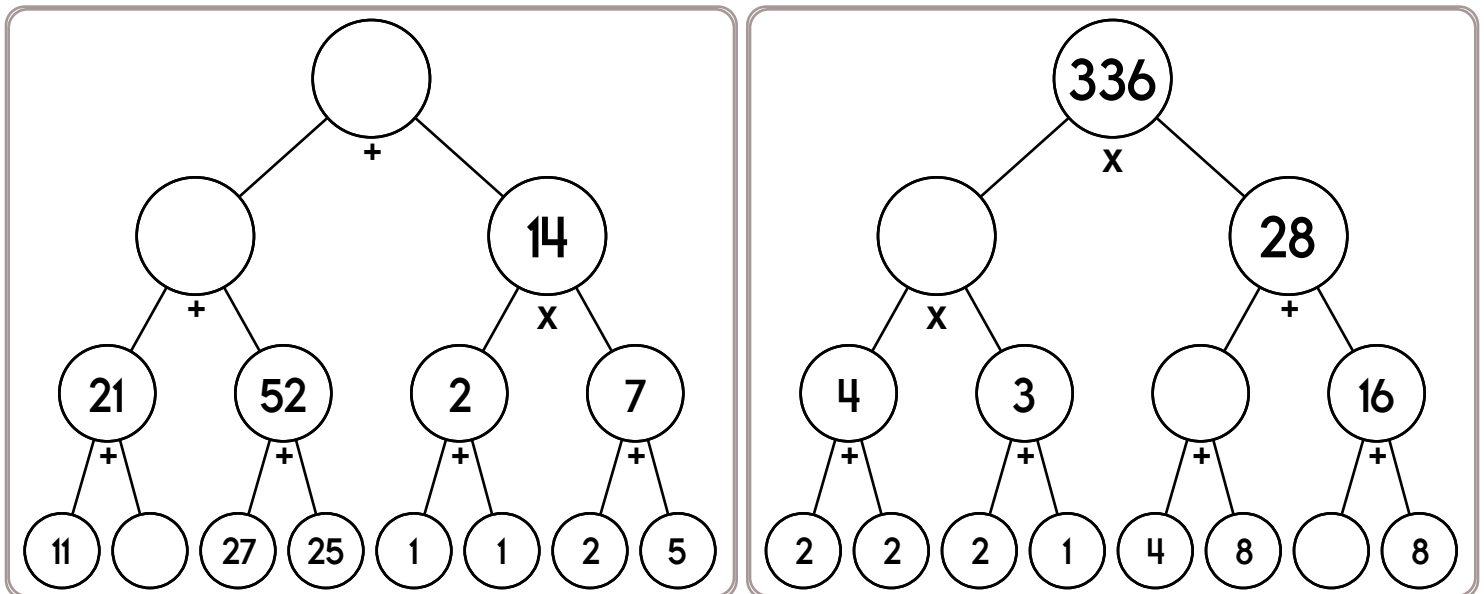
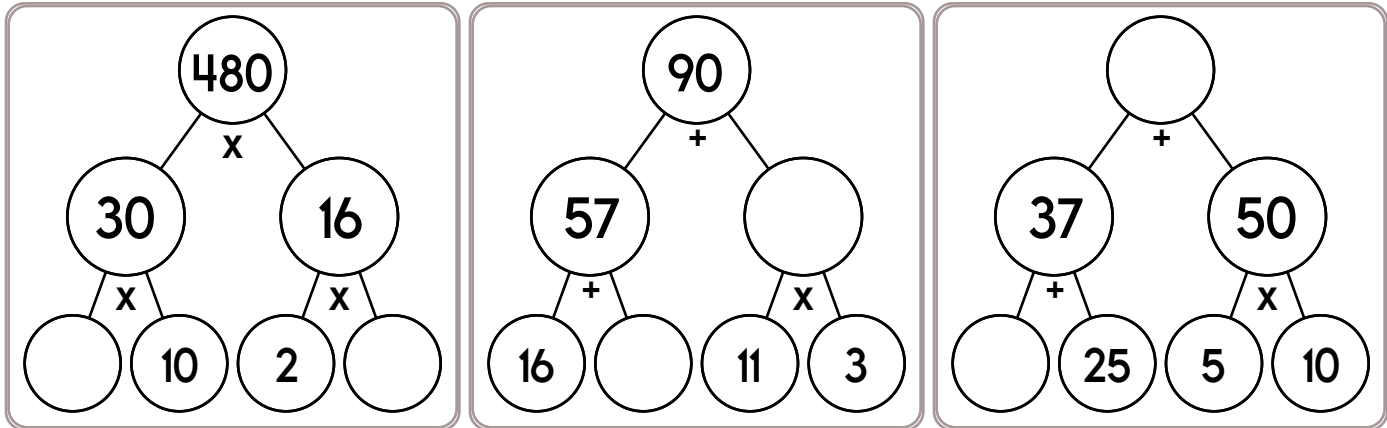
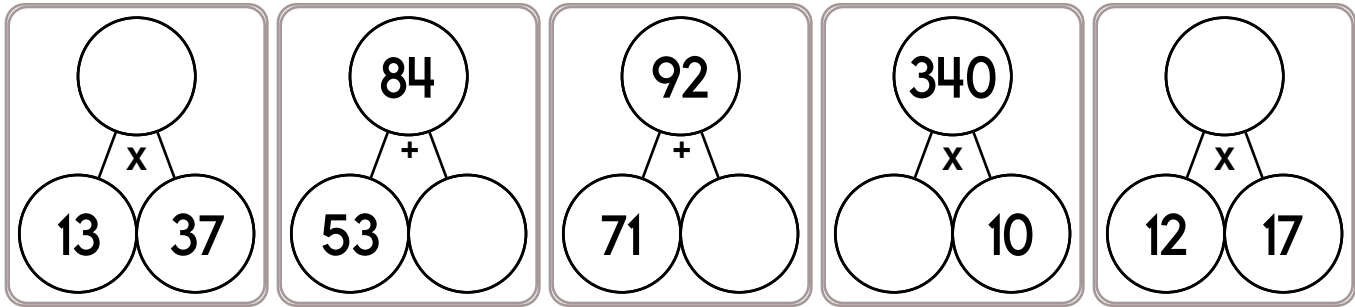
$$48 \div -6 =$$

$$-11 \times 9 =$$

$$-80 \div -8 =$$

word root **audi** can mean **hear****audience, audition**

Name: \_\_\_\_\_



What is the greatest common factor of the numbers 108 and 36?

$$9b - 10.7 = 43.3$$

$b =$

170, 180, \_\_\_\_\_, 200, 210,  
220, 230, 240, 250

Name: \_\_\_\_\_

$$\begin{array}{r} 793 \\ + 55 \\ \hline \end{array}$$

Find the sum of 15, 12, and 42.

$$\begin{array}{r} 819 \\ - 24 \\ \hline \end{array}$$

$$546 \div 10$$

$$0.7 (0.5 (0.7 + 8)) =$$

What is the remainder of 65 divided by 15?

$$\frac{9}{11} \times \frac{3}{7}$$

Simplify.

$$\frac{16,000}{28,000} =$$

In what quadrant would you find the point (-9, -8)?

$$0.75 + 9.3 =$$

What is the sum of 9.8 and 8.3?

$$\begin{array}{r} 0.8 \\ - 0.4 \\ \hline \end{array}$$

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

Reduce  $\frac{12}{14}$  to its lowest terms.

$$10 + \frac{5}{8} - \frac{2}{5} =$$

Name: \_\_\_\_\_

$$2 \times (45 \div 5) - 21 \div 7 =$$

$$|-5| - j = 3$$

$$j =$$

If  $s = 6$  and  $t = -51$  then  
what is the value of  $x$ ?  
 $9s + 13t - 4t = x$

$$18n = 90$$

$$\frac{N}{4} = 12$$

$$3y = 15$$

Write the reciprocal.

$$\frac{3}{1}$$

Write the reciprocal.

$$\frac{1}{3}$$

Write the reciprocal.

$$\frac{4}{16}$$

$\$84 - p = \$20$   
What is the value of  $p$ ?

If  $x = -7$  and  $a = 43$  then  
what is the value of  $m$ ?  
 $7x + 15a - 4a = m$

$(4 + 18) + 10 = 2(v + 12)$   
What is the value of  $v$ ?

If  $a = 6$  and  $j = -5$  then  
what is  $a^2 \cdot j^2$ ?

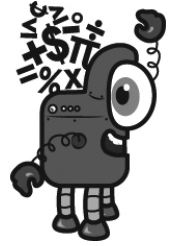
What is the greatest  
common factor of the  
numbers 60 and 45?

$$(0.2)(0.14)$$

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## Mental Math

— #1 —



- Start with the area of a square that has a length of 2.

4

- Multiply by 6.

6 7 2 4 2 4 9 9 7 9 (Circle your answer to double check you are correct.)

- Subtract 15.

8 0 3 9 9 6 7 0 6 8

- Multiply by 2.

5 4 7 8 3 1 8 8 4 9

- Multiply by 10.

2 9 5 7 3 3 1 8 0 0

- Add the digits in your number. The sum of that is your new number.

9 7 2 9 4 0 9 9 6 5

- Triple that number.

2 1 4 4 9 6 5 2 7 5

- Multiply the tens digit by the ones digit. The product is your new number.

9 1 4 0 8 1 7 0 3 6

- Add the digits in your number. The sum of that is your new number.

6 0 5 2 4 3 5 9 7 3

- Multiply by 4.

4 2 9 2 2 0 3 0 8 5

- Add the digits in your number. The sum of that is your new number.

5 9 7 4 3 2 4 1 9 5



Name: \_\_\_\_\_

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

\_\_\_\_\_, 12, 14, 16, 18, 20, 22, 24

\_\_\_\_\_, \_\_\_\_\_, 12, 14, \_\_\_\_\_, \_\_\_\_\_

6, \_\_\_\_\_, 10, 12, \_\_\_\_\_, \_\_\_\_\_, 18, 20

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

9, 24, 11, 44, 79, 134, 257, 470, 861, 1588, 2919, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

2, 19, 5, 26, 50, 81, 157, 288, 526, 971, 1785, \_\_\_\_\_, \_\_\_\_\_

Name: \_\_\_\_\_

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

20% of 55



22% of 50

87% of 100



82% of 50

74% of 150



68% of 200

100% of 34



50% of 174

85% of 160



75% of 148

41% of 100



20% of 170

82% of 50



41% of 100

28% of 150



24% of 175

How many centimeters in  
770.6 meters?

$$11 \div \frac{1}{5}$$

$$55 \div 11 - 3$$

F, H, J, L, \_\_\_\_\_, P, R, T,  
V, X6, 9, 9, 9, 9, 6, 6, 6, 9,  
\_\_\_\_\_, 9, 9, 6, 6, 6, 6, 6,  
9, 9, 9, 9, 6, 6, 6, 6, 6, 6,  
6It's 10:00 a.m. Holly has  
soccer practice today. If  
practice starts at 5:50 p.m.,  
then how much longer until  
soccer starts?Estimate quickly the  
difference.  
6,020 - 2,170It was 2 degrees above  
zero in the morning. By  
afternoon the temperature  
rose 22 degrees. How  
warm was it?How many centimeters in  
3.7 meters?

Name: \_\_\_\_\_

Circle the one that is smaller.

a.  $98\frac{1}{7}$  or  $98\frac{1}{6}$

b.  $\frac{93}{4}$  or  $\frac{93}{3}$

c.  $\frac{1}{4} + \frac{1}{4}$  or  $\frac{1}{5} + \frac{1}{5}$

d.  $93 - \frac{1}{4}$  or  $93 - \frac{1}{3}$

e.  $\frac{1}{5}$  or  $\frac{1}{6}$

Who traveled the longest distance?

Anna rode her bike for 25 minutes at an average speed of 19 miles per hour.

Erin took her electric scooter to the mall. It took her 23 minutes to get to the mall, and her average speed was 17 miles per hour.

Justin walked at an average speed of 3.5 miles per hour for 3 hours and 20 minutes.

Draw a number line. Label 0 up to 3.

Then mark approximately where you

think  $\frac{2}{3}$  and  $2\frac{3}{4}$  should go.

Is  $1\frac{2}{5}$  closer to  $\frac{2}{3}$  or  $2\frac{3}{4}$ ?

Rosa and Sara are playing games on their phones. Who spent the least amount of money?

Rosa bought an avatar for 315 FunBucks. She also bought some stickers for 38 FunBucks.

Sara bought a badge for her avatar for 31 PlayBucks.

1 US Dollar = 39 FunBucks

1 US Dollar = 3.4 PlayBucks

**Name:** \_\_\_\_\_

Simplify by combining like terms.

$6b + 5b$

$11b$

$16g - 12g$

$4h + 9h$

$17w - 5w + 8w$

$d + 4d$

$25g - 2g + 7g$

$14h + 5h - 4h$

$14d - 10d$

$18a - 3a - 5a$

$22d + 3d - 5d$

$6k + 11k$

$3h + 9h$

Name: \_\_\_\_\_

"I can quickly divide a three-digit number by a two-digit number," Ava tells Kevin.

"Yeah, sure," replies Kevin. "Then what is 240 divided by 12?"

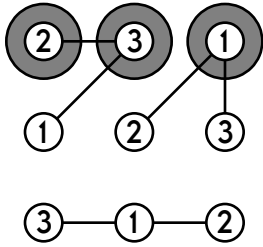
Ava has a trick. She will distract Kevin while you figure it out. Show your work!

Anna earned \$64.80 working 8 hours babysitting. Rose worked the same number of hours, but she earned \$81.76. How much more was Rose paid per hour than what Anna got per hour?

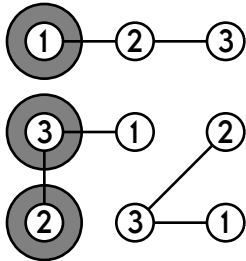
Emma needs to make 42 sugar cookies for a big party, but her favorite recipe is only for 14 cookies. The recipe calls for  $1\frac{4}{5}$  cups of sugar. How much sugar will she need to use?

Name: \_\_\_\_\_

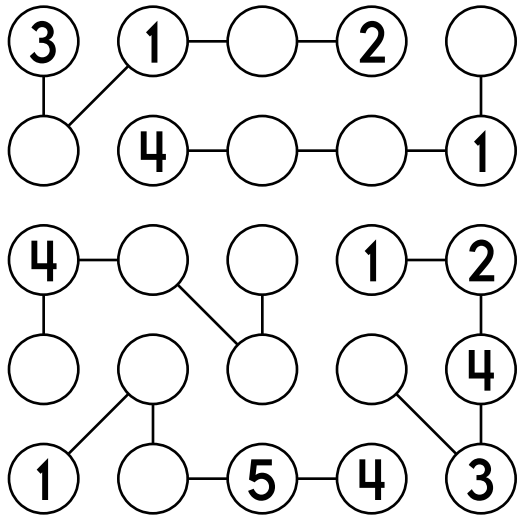
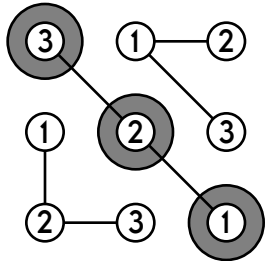
Each column must contain different numbers.



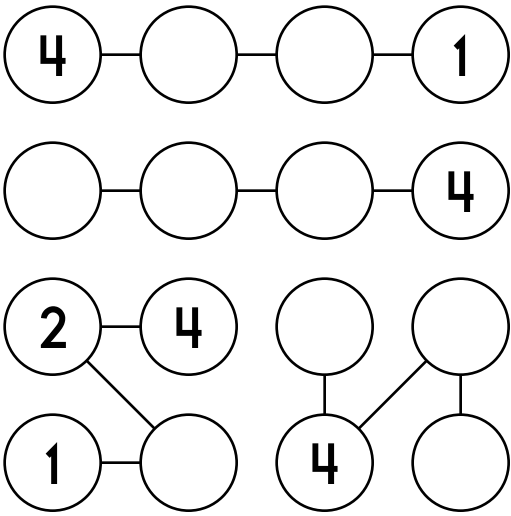
Each row must contain different numbers.



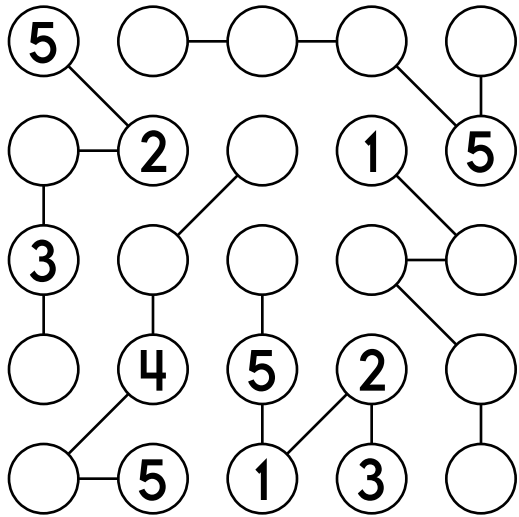
Each connected group must contain different numbers.



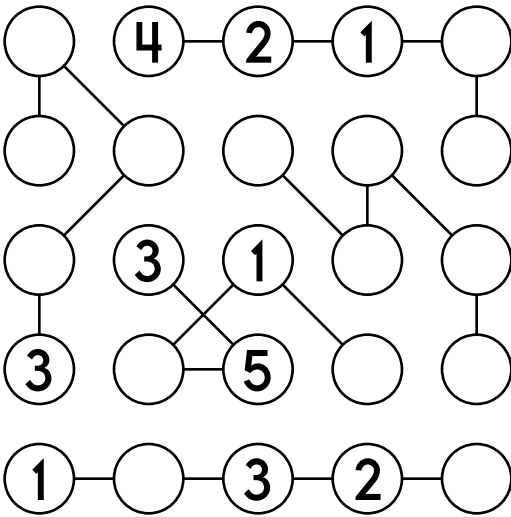
Use the numbers 1 through 5.



Use the numbers 1 through 4.



Use the numbers 1 through 5.



Use the numbers 1 through 5.

Name: \_\_\_\_\_

**Sudoku Sums of 17**

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 17.

Here is an example of a sudoku sum of 17:

7	10
---	----

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

Hannah rolls a die. What is the chance of her rolling a 6?

\_\_\_\_\_

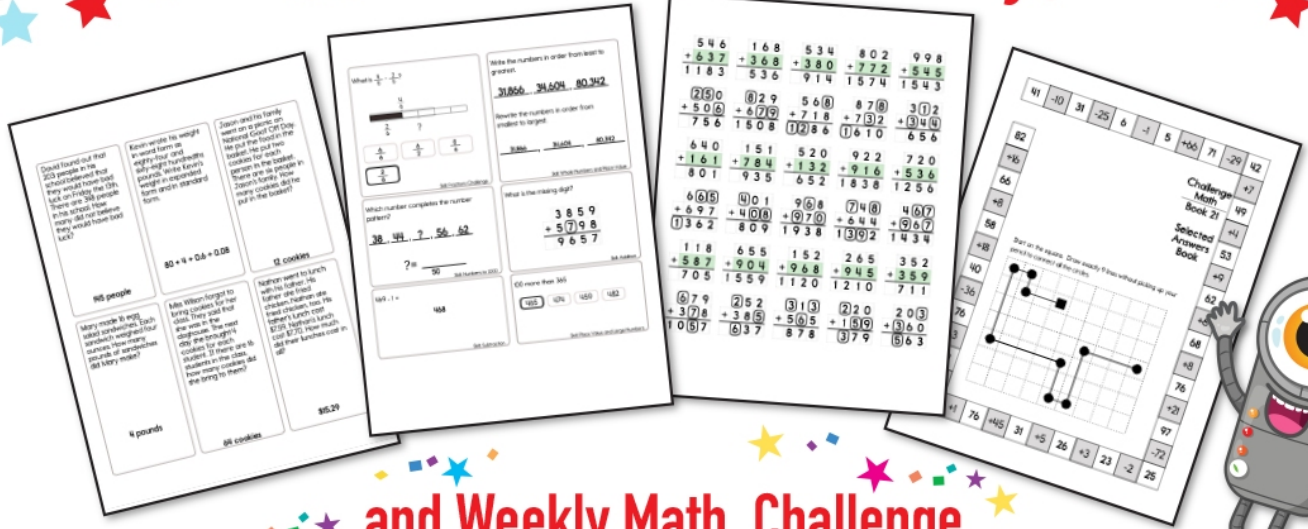
$$\begin{array}{r} 312 \\ - 135 \\ \hline \end{array}$$

$$\begin{array}{r} 27 \\ + 26 \\ \hline \end{array}$$

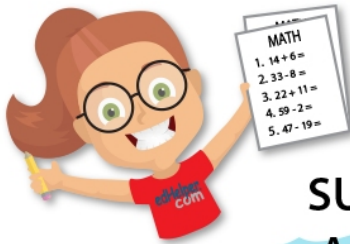
$$\begin{array}{r} 72 \\ - 10 \\ \hline \end{array}$$

word root **aholic** can mean **addicted****workaholic, chocoholic**

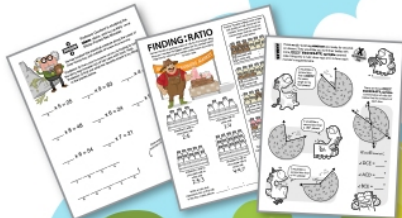
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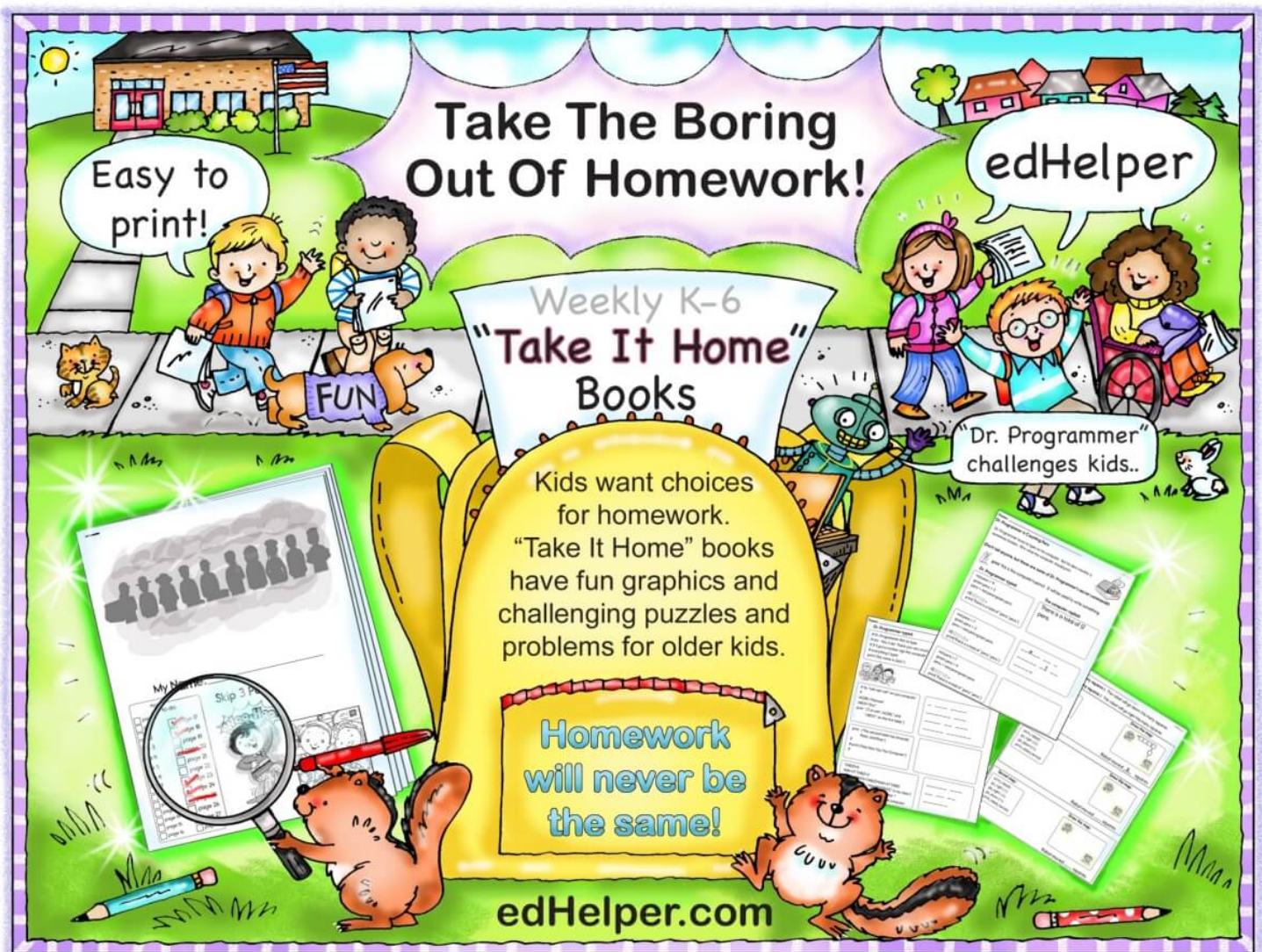


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Name: \_\_\_\_\_

$87\frac{2}{6}$	$+\frac{2}{6}$		$+6\frac{3}{5}$		$+\frac{2}{12}$		$+\frac{1}{6}$	
	$+15$		$-\frac{1}{12}$		$-36$			$-7$
$-4$							$+\frac{1}{5}$	
					$-\frac{8}{12}$	$+17$		
$+34$								
	$+55$		$+8\frac{4}{6}$	$202\frac{17}{20}$	$+59$		$+50$	$285\frac{43}{60}$

$16\frac{3}{12}$	$-\frac{6}{10}$		$+9\frac{5}{10}$			$126\frac{47}{60}$	$-48$	
				$-\frac{9}{12}$		$-\frac{2}{12}$		$-5\frac{6}{9}$
	$+45$		$+35$					
$+7$						$-3\frac{3}{12}$	$-8$	
	$-18$	$93\frac{2}{5}$	$+36$	$129\frac{2}{5}$	$+\frac{8}{10}$	$130\frac{1}{5}$		$65\frac{7}{60}$

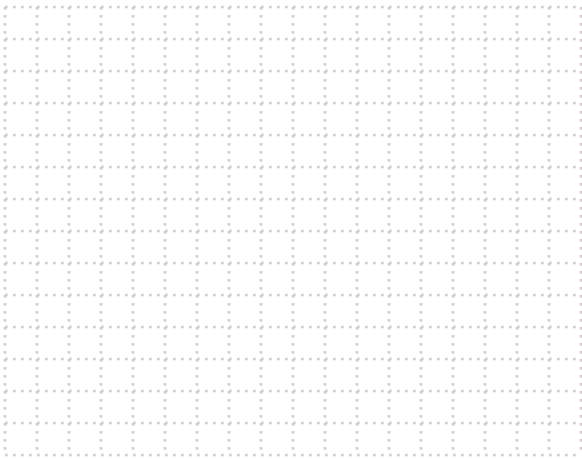
Name: \_\_\_\_\_

Hannah is trying to figure out how many different remainders she can get when she divides by 4. She started dividing 53 by 4, then 54 by 4, and so on. Show her how many different remainders can be made.

What would happen if you divide larger numbers like 530 by 4? Can you get different remainders?

Amanda went to the store and bought ten candy bars (all the same type) and seven packs of bubble gum (again, all the same type). She is afraid that she'll need to do extra brushing, so she bought three packs of toothpaste (all the same). The toothpaste came to a total of \$14.

If the candy bars are \$4 each and the packs of gum are \$2 each, how much did she spend altogether?



Draw an irregular shape with no straight lines. The shape should have an area that is about 9.3 square units. Color in the shape.

Rose is playing Mary a game of sock basketball. Rose is currently leading 17 to 13. They play for a few more minutes till the final score of 20 to 19 is reached. Can you tell who won?

Wendy is playing Anne a game of sock basketball. Wendy is currently leading 15 to 11. They play for a few more minutes till the final score of 14 to 22 is reached. Can you tell who won?

Name: \_\_\_\_\_

$\frac{2}{7}$

$\frac{1}{5}$

$\frac{1}{4}$

$\frac{2}{5}$

$\frac{2}{3}$

$\frac{3}{4}$

$\frac{4}{7}$

Name two of the above numbers that have a sum of  $\frac{24}{35}$ .

One side of a rectangle is 3 centimeters longer than the other side. The perimeter is 42 centimeters. How long is the longest side?

Use any of these digits. Cross off a digit after you use it.

**5****5****1****5****5**

Write the smallest 2-digit number that you can come up with that is divisible by 5.

Name: \_\_\_\_\_

11	$-2\frac{1}{10}$						
		+31		+4			
							$+\frac{1}{3}$
		$+\frac{1}{3}$		$+\frac{2}{3}$			
	$+\frac{4}{10}$			$123\frac{9}{10}$			+28
+16				$+\frac{6}{10}$		-14	
	+59		$+7\frac{2}{3}$				+12
							$95\frac{9}{10}$

62	+9			$166\frac{4}{11}$	$+4\frac{2}{11}$	
		$-\frac{3}{4}$		$+\frac{9}{11}$		+19
	+37			$165\frac{6}{11}$		$189\frac{6}{11}$
$-2\frac{3}{4}$				$+\frac{2}{4}$		+14
	$+\frac{6}{11}$		+60	$165\frac{1}{22}$		$203\frac{6}{11}$
						-41
						$162\frac{6}{11}$





Name: \_\_\_\_\_

**"Or" Questions:**

```

if (true or false)
  print ("We have one true so it is true.");
else:
  print ("Everything is false so it is false");

```

The computer will print:

We have one  
true so it is  
true.

```

A = false or true;
print (A);

```

true

```

A = true or false;
print (A);

```

```

A = false or false;
print (A);

```

```

A = not (false);
print (A);

```

```

A = not (true or true);
print (A);

```

```

A = not (true or false);
print (A);

```



Name: \_\_\_\_\_

```
a="February";
```

```
if (a=="January") or (a=="February")
  print ("You are in group 1.");
```

```
if (a=="March") or (a=="April")
  print ("You are in group 2.");
```

```
_____
```

```
_____
```

```
P = "Brazil";
```

```
if (P=="Canada") or (P=="Mexico") or (P=="US")
  print ("That is in North America.");
```

```
else:
```

```
  print ("I am not sure where that is.");
```

```
_____
```

```
_____
```

```
_____
```

```
print("Need a NOT");
```

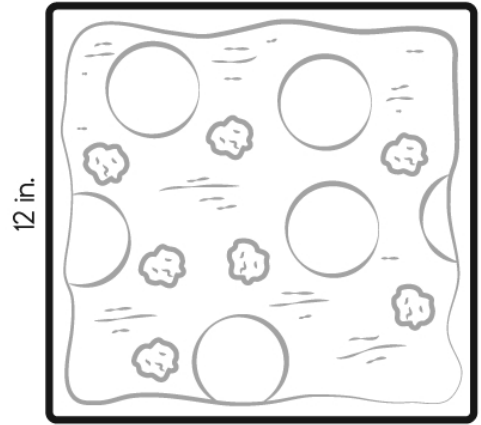
```
_____
```

```
A = not (true or true or false);
print (A);
```

```
_____
```

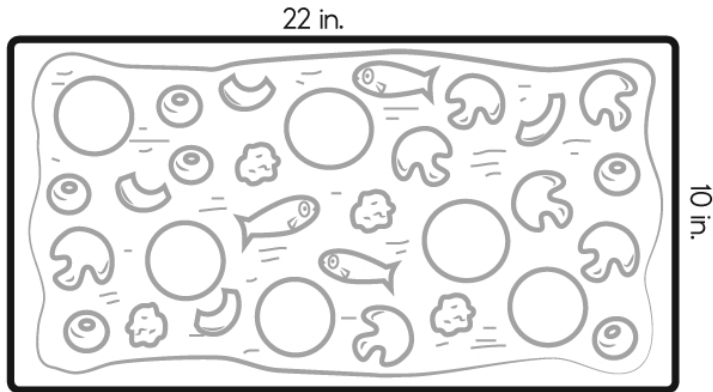
```
A = not ( not( true ) );
print (A);
```

Name: \_\_\_\_\_



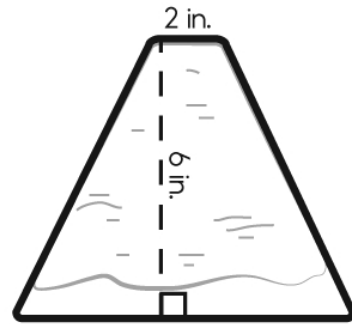
Area =

Perimeter =



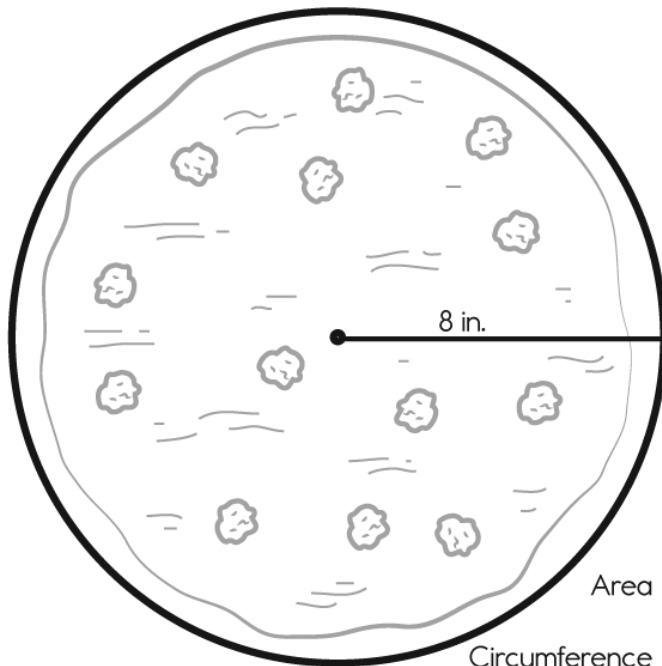
Area =

Perimeter =



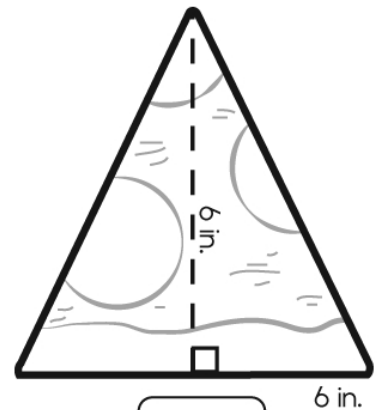
Area =

Perimeter =



Area =

Circumference =

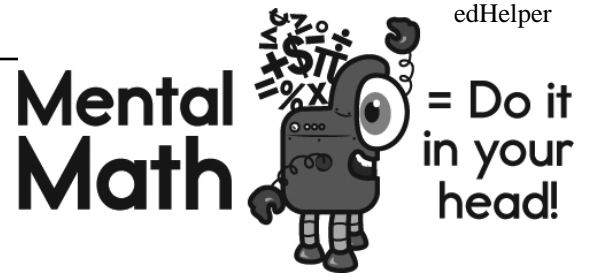


Area =

Perimeter =

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?



imagine 9 in your head

double it

add 4

Add the tens digit to the ones digit.  
Write the sum.

\_\_\_\_\_  
A

imagine 4 in your head

add 1

multiply 7

subtract 7

Write the ones digit.

\_\_\_\_\_  
B

imagine 9 in your head

double it

subtract 9

subtract 6

Write the number.

\_\_\_\_\_  
C

imagine 6 in your head

double it

subtract 8

add 3

subtract 5

Write the number.

\_\_\_\_\_  
D

What is the sum?

A + B + C + D

\_\_\_\_\_

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

\_\_\_\_\_ e \_\_\_\_\_ n

3 after 14 \_\_\_\_\_

2 before 19 \_\_\_\_\_

9 before 13 \_\_\_\_\_

4 after 18 \_\_\_\_\_

3 before 15 \_\_\_\_\_

8 before 16 \_\_\_\_\_

9 after 12 \_\_\_\_\_

4 before 18 \_\_\_\_\_

1 before 11 \_\_\_\_\_
























7 after 11 \_\_\_\_\_

6 before 17 \_\_\_\_\_

5 before 14 \_\_\_\_\_

Name: \_\_\_\_\_

Puzzle:

					34
			5		48
					59
			5		41
					31
42	50	47	28	46	+

Work Area:

					34
			5		48
					59
			5		41
					31
42	50	47	28	46	+

The sum for each column  
and row is given.



= \_\_\_\_\_



= \_\_\_\_\_



= \_\_\_\_\_



= \_\_\_\_\_



= \_\_\_\_\_

$$(12 \times 10) - 7 + 4$$

Write  $\frac{3}{6}$  in lowest terms.

A toy car can go 5 mph.  
How long would it take to  
go 12.5 miles?

$$9 + 1 - 3 - 5$$

Yummy Donuts gave two  
dozen chocolate donuts  
and four dozen jelly donuts  
to the school. How many  
donuts did they give?

What is 50% of 1,008?

Name: \_\_\_\_\_

$$8 \times 8 = x^2$$

What is the value of x?

Rewrite  $\frac{24}{25}$  as a decimal.

In what quadrant would you find the point (-4, 7)?

What is the mode of the following number set?

96, 90, 95, 99, 97, 86, 83, 94,  
87, 85, 79, 80, 89, 91, 93, 92

A circle graph has four sections. Only three sections are labeled. The labels are 22.1%, 20.4%, and 12.5%. What should the missing section be?

Rewrite as an algebraic expression or equation.

Eleven subtracted from a number is forty-eight.

If  $p = 9$ ,  $s = -8$ , and  $m = 11$  then what is  $p - s \cdot m$ ?

At the dive meet Eric received scores of 9.2, 7.6, 9.2, 7.9, and 8.6. The largest and smallest scores were dropped and the rest were averaged for a final score and rounded to the nearest tenth. What is the final score Eric received?

Rewrite as an algebraic expression or equation.

Add p to the product of 10 and 8

$$|-5| + a = 10$$

a =

Rewrite  $\frac{1}{25}$  as a decimal.

Simplify.

$$\frac{9,200}{13,800} =$$

Name: \_\_\_\_\_

$$\frac{34}{48} \div \frac{8}{12} =$$

$$10.7274 \times 10^4 =$$

If  $y = 9$  and  $v = -28$  then  
what is the value of  $j$ ?  
 $4y + 14v - 3v = j$

Rewrite as an algebraic  
expression or equation.

Three thousand, four  
hundred ninety minus the  
product of  $f$  and 40.1.

$29 - 28 + t = 10$   
What is the value of  $t$ ?

$\frac{1}{4}$ , (1), (4), (16),  
\_\_\_\_\_, (256), (1,024),  
(4,096), (16,384)

$$2 \times 24 \div 3 - 54 \div 9 =$$

$$0.4 (0.6 (0.4 + 9)) =$$

$$16f - 7.7 = 40.3$$

$$f =$$

$$3 \times (48 \div 6) - 50 \div 10 =$$

$$0.0008 \times 0.9$$

Simplify.

$$\frac{86}{387} =$$

$$0.1 (0.3 (0.1 \times 6)) =$$

$$\frac{2}{7} \times \frac{10}{11}$$

Simplify.



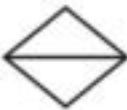


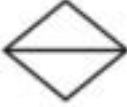

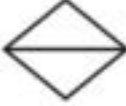




$$\frac{30}{45} =$$

Name: \_\_\_\_\_

Each row, column, and box must have the numbers 1 through 6. The first box is done.

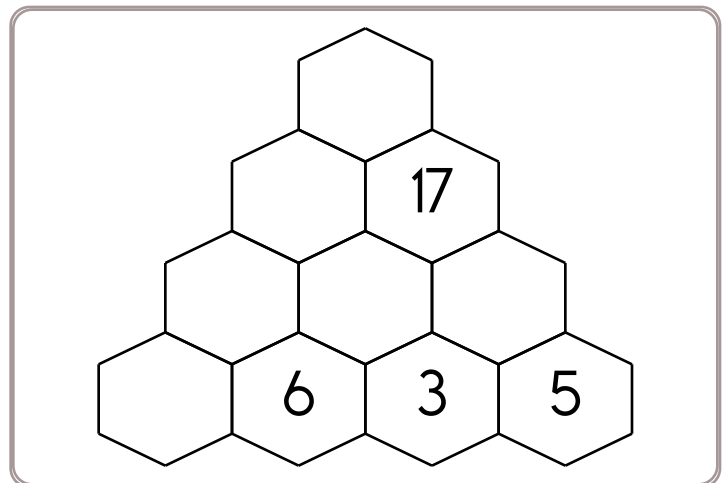
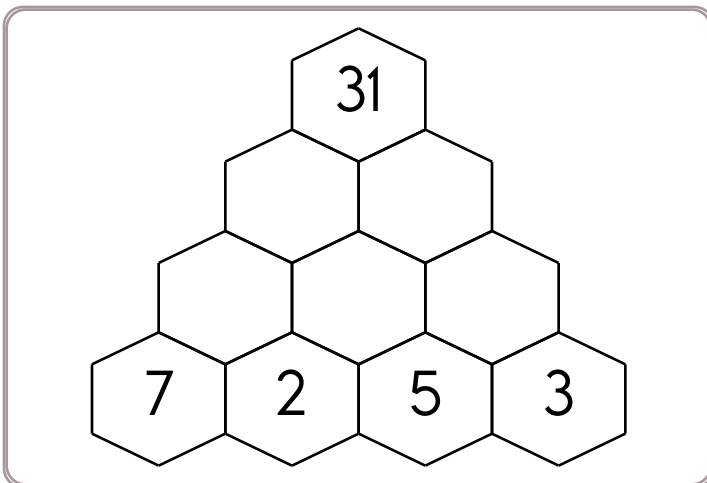
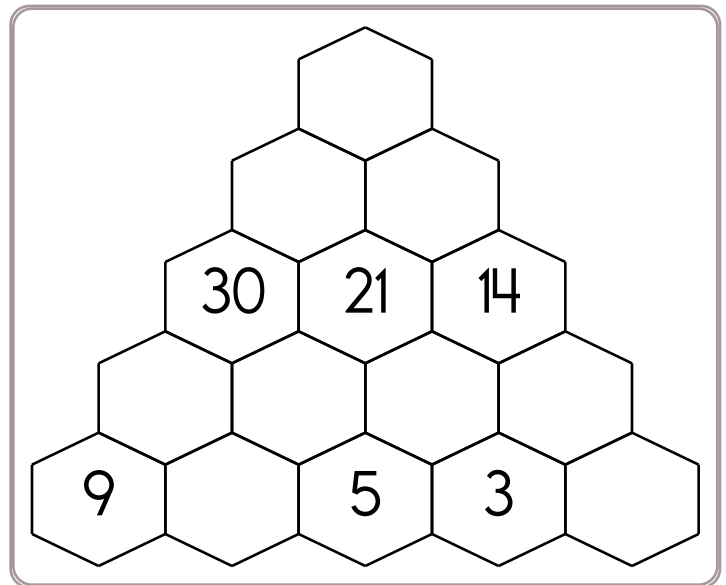
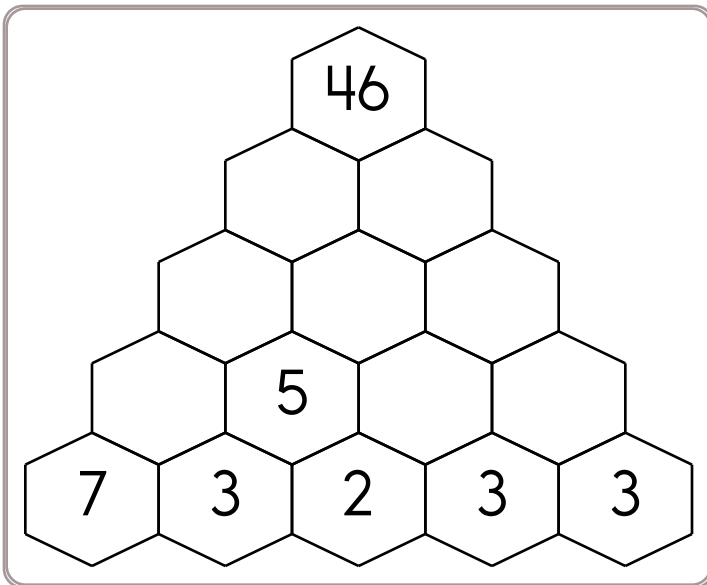
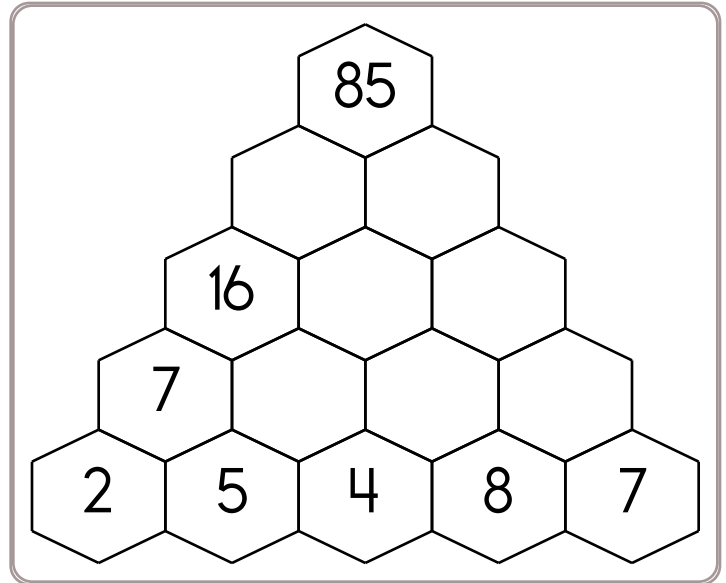
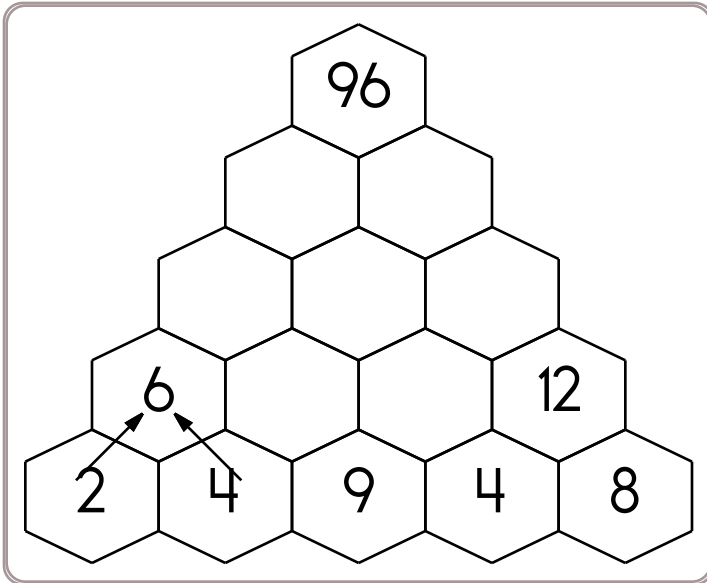
3	5	2	1		
4	1	6	3	5	2
			4	1	
				2	
1	6			4	

Each row, column, and box must have 6 different pictures.

Name: \_\_\_\_\_

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



word root **inter** can mean **between or among**

**interceptor, intermission, intersect**



Name: \_\_\_\_\_

**Pay the bill!**

Rent is due. Adam needs to pay his landlord \$3,300. His landlord's name is April Robinson.

ADAM

1709

DATE \_\_\_\_\_

PAY TO THE  
ORDER OF \_\_\_\_\_\$ 

DOLLARS

MEMO \_\_\_\_\_

⑆993062744⑆

⑈65674⑈

1709

**Pay the bill!**

Adam received a bill for his cellphone from Mobile Unlimited for \$45.98. Write the check as Adam would write it.

ADAM

1710

DATE \_\_\_\_\_

PAY TO THE  
ORDER OF \_\_\_\_\_\$ 

DOLLARS

MEMO \_\_\_\_\_

⑆993062744⑆

⑈65674⑈

1710

Use &gt;, &lt;, or = to complete.

12%  $\underline{\quad}$   $\frac{3}{11}$

72%  $\underline{\quad}$   $\frac{1}{12}$

35%  $\underline{\quad}$   $\frac{3}{11}$

$| -7 | - s = 11$

$s =$

$5 \times 3 - 8 - 1 \times 6$

$(0.9)(0.13)$

$\frac{3}{5} \times \frac{2}{5}$

$3 \times 3 \times 3 = 3^x$

What is the value of x?

Name: \_\_\_\_\_

The deepest lake in the world is Lake Baikal in Russia. Lake Baikal is 1637 meters deep. Approximately how many feet deep is Lake Baikal?

Charles Lindbergh flew from Roosevelt Field, New York, to Le Bourget Field in Paris, France. He flew the 5,810 kilometers in 33.5 hours. What was his average speed? Round your answer to the nearest hundredth.

The sum of two numbers is  $48\frac{1}{3}$ .

If you take the first number and subtract it by the second, the difference is 23.

What are the two numbers?

Emma has given powers to her collection of dolls. There are the B dolls and the F dolls.

Today, she is having a match between one B doll and one F doll. The doll with more power will win. Who will win?

Two B dolls have 5 power points.

Six F dolls have 7 power points.

word root **loqu** can mean **talk** **eloquent, loquacious**

Name: \_\_\_\_\_

The students in Mr. Young's class decided they would make a list of the toxic chemicals in cigarettes. They were very surprised to find out that cigarettes contain over 4,000 dangerous chemicals. They even contain formaldehyde! Formaldehyde is a chemical used to preserve dead bodies. Up to 24% of each cigarette is made up of cancer-causing chemicals. If a cigarette weighs 0.09 ounces and contains 24% toxic chemicals, what is the weight of the chemicals in one cigarette?

Ana Maria has applied for United States citizenship. She has studied American history and government for a long time and thinks she is ready to take the citizenship test. When she took the practice test online she answered forty-nine questions correctly and only missed three. What percent of the questions did she get right?

Which two of these numbers have a product of 1.472?

0.023

0.64

5.9

0.59

6.4

0.23

0.064

2.3

Change  $\frac{19}{20}$  to a decimal.

$$\begin{array}{r} 2.3 \\ \times 60 \\ \hline \end{array}$$

Change  $\frac{97}{100}$  to a decimal.

word root **cept** can mean **take or hold**

**interceptor, receptive, receptor**

Name: \_\_\_\_\_

What is the least common multiple of 10 and 20?

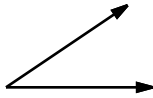
What is the greatest common factor of 9, 18, and 21?

What is the greatest common factor of 8 and 4?

$$17 + \frac{1}{2} + \frac{1}{4} =$$

$$3 + \frac{1}{3} - \frac{1}{5} =$$

$$17 - \frac{1}{5} - \frac{7}{11} =$$



What kind of angle is this?



What kind of angle is this?

$$3 - 4 - 2 =$$

$$10 - 5 = \underline{\quad}$$

Rewrite  $18 - 5$

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$10 + -5 = \underline{\quad}$$

Write the reciprocal.

$$\frac{2}{1}$$

Write the reciprocal.

$$\frac{3}{1}$$

Write the reciprocal.

$$\frac{9}{5}$$

Name: \_\_\_\_\_

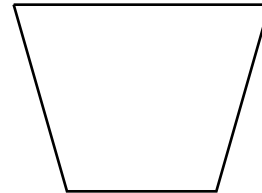
It has been an intense softball season. Sarah, Sara, and Amy are friends, but they all are on different teams in the league. Sarah's team has won 12 games and lost 7 games. Sara's team has won 7 games and lost 12 games. Amy's team has won 11 games and lost 8 games.

Which team has the best record?

Rosa is playing the game Super Speed Math against Jenna on her phone. She is really trying to get the most answers correct as fast as she can, but she is starting to get careless. The last problem asked her to add two numbers, but she thought it was subtraction and entered 16. The real and correct sum is 18 more than her answer. What could the original equation be?

Mary wrote a program to print a list of numbers. She set the first number to 12, and each number she prints after 12 will decrease by 16. The program prints 9 numbers so the screen looked like this: 12, -4, -20, -36, -52, -68, -84, -100, -116

Now she will change the variables. Instead of starting with 12 she will start with 26. Each number will decrease by 6 and the program will print 12 numbers. What will the screen look like this time?



Color in approximately half of the area for each shape.

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.

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

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

3 1 2 4

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

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

2 1 3 4

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

Hint - These numbers are missing:

4 3 4 4 1

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

Hint - These numbers are missing:

1 1 3 1 3

Name: \_\_\_\_\_

Fill in the missing numbers.

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

Hint - These numbers are missing:

4 4 4 3 1 3 3

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

Hint - These numbers are missing:

2 2 3 2 2 1 3 2

1	3	2	
	4	1	3
	3		

Hint - These numbers are missing:

1 2 4 2 4

	4		1
2	1		4
3		2	

Hint - These numbers are missing:

1 2 3 3 4

Circle the fourth number.

R, B, D, 6, 5, 7, 9, 4, Z, 3,  
A, X, 5, F, X, A, 8, 7

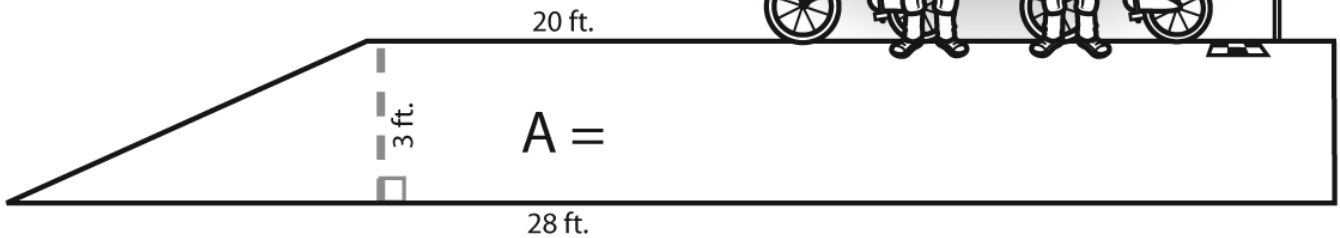
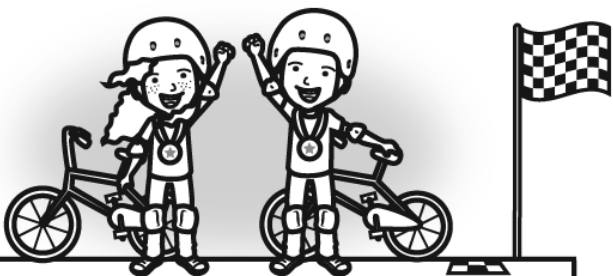
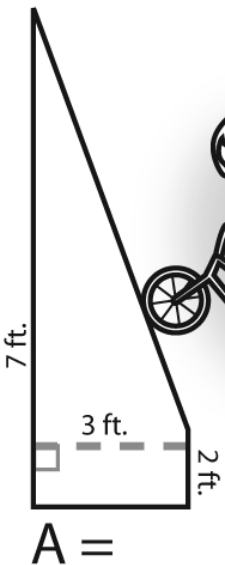
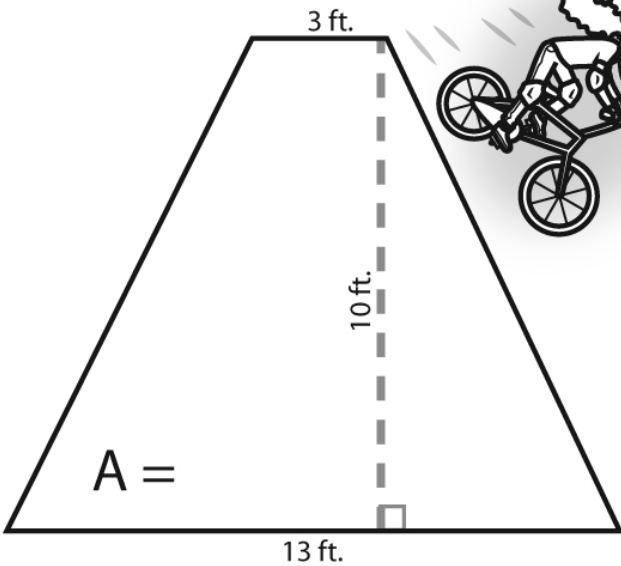
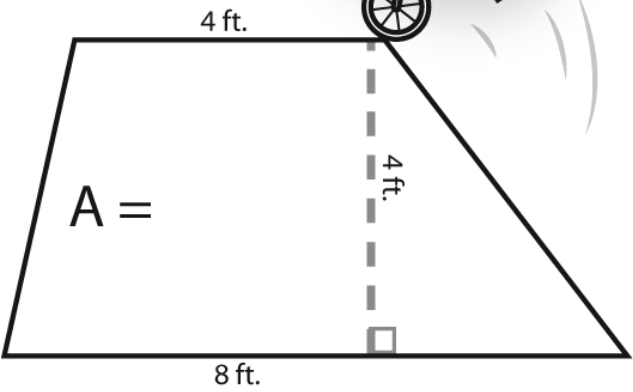
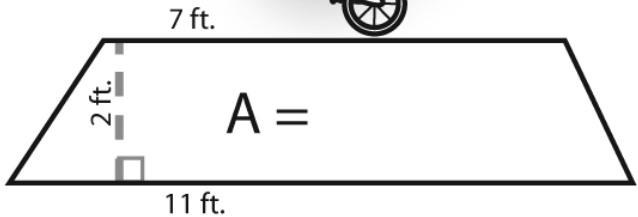
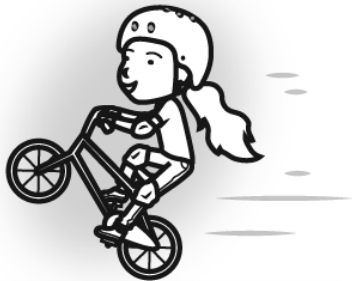
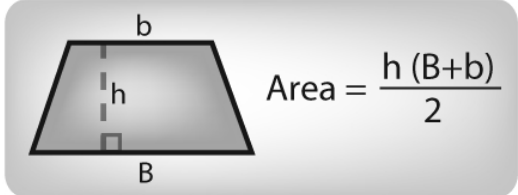
16, \_\_\_\_, \_\_\_\_, 19, \_\_\_\_, 21,  
\_\_\_\_

Which number should  
replace the first blank?

What is ten less than 65?

Name: \_\_\_\_\_

# Trapezoid AREA





Name: \_\_\_\_\_

$$3 \overline{) 287.664}$$

$$4 \overline{) 351.2}$$

$$7 \overline{) 2373.7}$$

Use &gt;, &lt;, or = to complete.

$$11\% \text{ — } \frac{1}{12}$$

$$50\% \text{ — } \frac{2}{4}$$

$$43\% \text{ — } \frac{1}{4}$$

$$0.8 (0.9 (0.8 \times 2)) =$$

Rewrite  $\frac{23}{50}$  as a decimal.

In what quadrant would you find the point (10, 4)?

Simplify.

$$\frac{8,800}{17,600} =$$

$$35 \div 5 \times 1$$

What is the remainder of 58 divided by 7?

$$3 + 6 \times 8 - 1 - 2$$

If  $a = 3$  and  $b = 8$ ,  
then  
 $4a + b =$ 

$$(9 + 4) + 3 =$$

Name: \_\_\_\_\_

# Sudoku Sums of 6

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 6.

Here is an example of a sudoku sum of 6:

2	4
---	---

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

$$\begin{array}{r} 74 \\ \times 14 \\ \hline \end{array}$$

$$\begin{array}{r} 419 \\ \times 73 \\ \hline \end{array}$$

$$\begin{array}{r} 46 \\ \times 15 \\ \hline \end{array}$$

Name: \_\_\_\_\_

88	-33		$-\frac{6}{7}$		-34		$+3\frac{2}{5}$	
	+56		-5		-1		$+\frac{1}{2}$	
$+7\frac{1}{5}$								
				-14		+13		
$+\frac{1}{2}$		$-\frac{4}{7}$	$112\frac{19}{70}$	$-\frac{1}{2}$			$-\frac{3}{5}$	$79\frac{1}{14}$

21	$-\frac{1}{2}$		$+7\frac{1}{2}$		$+8\frac{1}{2}$		+3	69
					$57\frac{1}{2}$			+14
	$+\frac{1}{3}$		+41		$-\frac{3}{6}$		$-\frac{1}{3}$	
+15								
	+5		$+\frac{4}{6}$	90	-32		+31	$113\frac{2}{3}$



Name: \_\_\_\_\_

Get a fidget spinner! Spin it.

I needed to spin \_\_\_\_\_ time(s) to finish.

$$9 \times 5 \times 3 = \underline{\hspace{2cm}}$$

$$(11 + 3) \times 5 = \underline{\hspace{2cm}}$$

$$4 - 2 + 8 - 6 = \underline{\hspace{2cm}}$$

$$7 \times 12 + 11 = \underline{\hspace{2cm}}$$

$$2 + 8 + 7 = \underline{\hspace{2cm}}$$

$$5 \times 10 - 3 = \underline{\hspace{2cm}}$$

$$8 + 4 \times 5 = \underline{\hspace{2cm}}$$

$$(9 + 3) + 1 = \underline{\hspace{2cm}}$$

$$1 \times 7 + (7 + 4) = \underline{\hspace{2cm}}$$

$$2 \times 9 + 5 = \underline{\hspace{2cm}}$$

$$1 \times (9 \times 9 + 4) = \underline{\hspace{2cm}}$$

$$11 - (3 + 5) = \underline{\hspace{2cm}}$$

$$3 \times 4 \times 4 = \underline{\hspace{2cm}}$$

$$11 + 9 + 7 = \underline{\hspace{2cm}}$$

$$3 \times 4 \times (6 + 4) = \underline{\hspace{2cm}}$$

$$11 - 11 + 9 = \underline{\hspace{2cm}}$$

$$9 - 5 \times 1 + 4 = \underline{\hspace{2cm}}$$

$$5 \times 9 \times 10 = \underline{\hspace{2cm}}$$

$$5 \times 9 \times 2 + 3 = \underline{\hspace{2cm}}$$

$$12 \times 10 + 10 = \underline{\hspace{2cm}}$$

$$5 + 9 + 8 \times 4 = \underline{\hspace{2cm}}$$

$$(5 \times 6) + 4 = \underline{\hspace{2cm}}$$

$$4 - 3 + 6 = \underline{\hspace{2cm}}$$

$$5 + 9 + 4 = \underline{\hspace{2cm}}$$

$$1 \times (2 \times 2) - 4 = \underline{\hspace{2cm}}$$

$$3 - 3 + 10 = \underline{\hspace{2cm}}$$

$$1 \times 6 \times 1 = \underline{\hspace{2cm}}$$

$$1 + 7 + 12 = \underline{\hspace{2cm}}$$

$$(7 \times 9 \times 2) + 7 = \underline{\hspace{2cm}}$$

$$7 - (2 + 4) = \underline{\hspace{2cm}}$$

$$7 + 60 \div 10 = \underline{\hspace{2cm}}$$

$$12 \times 7 - 5 = \underline{\hspace{2cm}}$$

$$5 \times 2 \times 8 - 2 = \underline{\hspace{2cm}}$$

$$12 \times (12 + 7) = \underline{\hspace{2cm}}$$

$$(7 \times 3) - 3 - 9 = \underline{\hspace{2cm}}$$

$$5 \times 12 + 5 = \underline{\hspace{2cm}}$$

$$3 \times 1 - 2 = \underline{\hspace{2cm}}$$

$$(4 \times 11) + 5 = \underline{\hspace{2cm}}$$

$$8 \times 7 \times 3 = \underline{\hspace{2cm}}$$



Name: \_\_\_\_\_

Spin again.

I needed to spin \_\_\_\_\_ time(s) to finish.

$$8 \times 7 \times 9 \times 9 = \underline{\hspace{2cm}}$$

$$1 \times (5 \times 11) = \underline{\hspace{2cm}}$$

$$1 \times 2 + 3 = \underline{\hspace{2cm}}$$

$$8 + 5 - 10 = \underline{\hspace{2cm}}$$

$$6 + 8 - 1 = \underline{\hspace{2cm}}$$

$$12 + 6 + 6 = \underline{\hspace{2cm}}$$

$$3 + 6 + 63 \div 9 = \underline{\hspace{2cm}}$$

$$3 + (6 + 2) = \underline{\hspace{2cm}}$$

$$(5 - 2) + 8 = \underline{\hspace{2cm}}$$

$$9 \times 4 - 4 = \underline{\hspace{2cm}}$$

$$8 + 9 - (7 - 7) = \underline{\hspace{2cm}}$$

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

$$6 \times 1 + 9 = \underline{\hspace{2cm}}$$

$$(12 - 10) + 6 = \underline{\hspace{2cm}}$$

$$6 - 1 + 9 = \underline{\hspace{2cm}}$$

$$(11 \times 8) - 9 = \underline{\hspace{2cm}}$$

$$(9 - 4) + 4 + 1 = \underline{\hspace{2cm}}$$

$$9 + 2 + 11 = \underline{\hspace{2cm}}$$

$$5 + (8 \times 9) - 5 = \underline{\hspace{2cm}}$$

$$8 + 4 \times 1 = \underline{\hspace{2cm}}$$

$$5 + 4 - 5 = \underline{\hspace{2cm}}$$

$$8 + (1 + 2) = \underline{\hspace{2cm}}$$

$$2 + 4 \times 8 = \underline{\hspace{2cm}}$$

$$2 \times 6 + 3 = \underline{\hspace{2cm}}$$

$$1 \times 4 - 2 = \underline{\hspace{2cm}}$$

$$9 - 3 + 9 = \underline{\hspace{2cm}}$$

$$3 + (48 \div 4) + 8 = \underline{\hspace{2cm}}$$

$$7 \times (4 - 3) = \underline{\hspace{2cm}}$$

$$3 + 3 \times 6 \times 5 = \underline{\hspace{2cm}}$$

$$9 - 1 - 1 = \underline{\hspace{2cm}}$$

$$4 + 2 \times 9 = \underline{\hspace{2cm}}$$

$$7 + 12 - 7 = \underline{\hspace{2cm}}$$

$$(9 - 6) - 3 = \underline{\hspace{2cm}}$$

$$9 \times (4 + 3) = \underline{\hspace{2cm}}$$

$$5 + 7 \times 8 = \underline{\hspace{2cm}}$$

$$11 \times 8 + 11 = \underline{\hspace{2cm}}$$

$$9 + 9 \times 5 = \underline{\hspace{2cm}}$$

$$10 + 8 - 1 = \underline{\hspace{2cm}}$$

$$(8 + 5) - 4 = \underline{\hspace{2cm}}$$

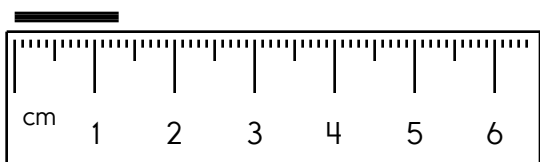
Name: \_\_\_\_\_

Connor bought 4 flags. Each flag cost 1 quarter and 3 pennies. How much did he spend in all?

Beautiful Betty wanted a picture of herself. She loved herself best of all. The picture cost \$7.79. Betty paid for it with a \$20 bill. How much change did she get?

Kevin ate  $\frac{4}{5}$  of his dessert at the Celebrate! Day party. Andy ate  $\frac{1}{4}$  of his dessert. Which boy ate more of his dessert?

Write the length in centimeters.



$$\begin{array}{r} 98 \\ - 34 \\ \hline \end{array}$$

What polygon has four sides?

Do you use A.M. or P.M. to write the time you eat dinner?

Round the number to the place value of the BIG number.

**8**47,899

☐ mevo

☐ movi

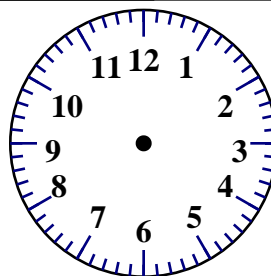
☐ move

☐ movve

Write a word to describe March.

If  $Q = 4$ , then what does  $Q + 6$  equal?

02:00



Name: \_\_\_\_\_

Write each number as a product of its prime factors.

68 2 x 2 x 17

54 \_\_\_\_\_

63 \_\_\_\_\_

70 \_\_\_\_\_

78 \_\_\_\_\_

Write the greatest common factor for each pair of numbers.

54 and 36

42 and 60

36 and 16

Find the square of each number.

2

7

12

Find the cube of each number.

5

13

If you are given that  $17^2 = 289$ , then show how you would find the square of 170.



Name: \_\_\_\_\_

# Can you guess the word?

No duplicate letters can be used.

**T** A W D R Y

The letter T is in the word  
and is in the correct spot.

P **A** R I T Y

The letter A is in the word,  
but A is not in that spot.

A B C D E F G H I J K L

A list of letters will be given that  
have not been used. Good luck!

Hint: There are no duplicate letters in the answer.

G	R	O	U	S	E
P	A	R	E	N	T
B	C	D	F	H	I
J	K	L	M	Q	V
W	X	Y	Z		

Let's check if you guessed correctly. Look across or  
down to find the correct answer.

RYGATNARCARPETCAERS  
PAAEPGQERRTERGTFPAA  
OKREERAHJOBUCKEGAET  
PCARTOUERPRSYTACREP  
CRMOTUGPWENORSEMER  
ERGRESRPERARTBOONLP  
EPJPKKEUWRLZBTQYTDY  
CCPSTAEOPSCNSTGNAAR

Hint: There are no duplicate letters in the answer.

P R E A C H  
T A C K L E

B D F G I J M N O Q S U V W X Y  
Z

Let's check if you guessed correctly. Look diagonally  
to find the correct answer. (DIAGONAL!)

ECSTTVAJKHRKEHHK  
CAXJU XKCDALCDQPK  
RCARARPTCCCAKCKK  
KEJKCCIRAKCLEHTW  
JCREECKPECEETQCJ  
PKACJYSEEAKKKASC  
NELTLMBTTLCLAKFC  
ESKCTIQLIERHECJI

Hint: There are no duplicate letters in the answer.

I	M	P	O	S	E
F	A	U	C	E	T
B	A	D	G	E	R

H J K L N Q V W X Y Z

Let's check if you guessed correctly. Look diagonally  
to find the correct answer. (DIAGONAL!)

EEDDLDPADBANI IAPDAD  
SEBAIIWRKAAMBMEPIMA  
MNANNSAGDSNDNOPMAZX  
RPGGEGIPEINDGGBOTPR  
NMDGAZETRAAYREMGSD  
MAAOGGRREOAVDLRJAEI



Name: \_\_\_\_\_

**True, Not True, False, and Not False**

True True

Not True False

False False

Not False True

**With "AND" both need to be true.**

True and False False

True and True True

False and True False

False and False False

True \_\_\_\_\_

Not True \_\_\_\_\_

Not False \_\_\_\_\_

False \_\_\_\_\_

True and True \_\_\_\_\_

True and False \_\_\_\_\_

False and True \_\_\_\_\_

False and False \_\_\_\_\_

<p>The equation <math>30 \div 10 + 16 = 19</math> uses three different numbers and two different equations.</p> <p>Make up your own equation which also has three different numbers and two different equations. The answer to your equation needs to be 32.</p>	$12 \times 11 =$ _____	$3 \times 11 =$ _____
	$6 \times 12 =$ _____	
	$12 \times 8 =$ _____	

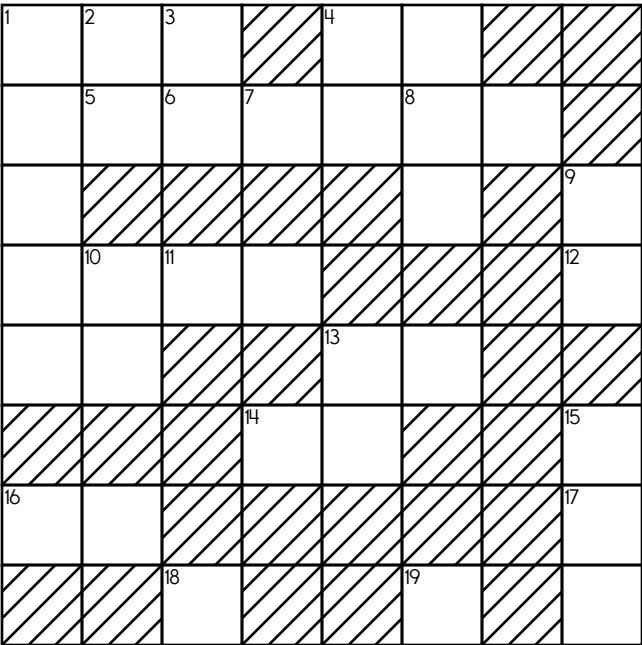
$21 \text{ km} =$ _____ $\text{m}$	<p>Write the missing family fact.</p> <p><math>3 \times 21 = 63</math></p> <p><math>63 \div 3 = 21</math></p> <p><math>63 \div 21 = 3</math></p> <p>_____</p>
------------------------------------	---

Name: \_\_\_\_\_

ACROSS

DOWN

- |  |  |
|--|--|
| 2. Its digits total 7  | 1. Average of 19-Across and 5-Across                             |
| 3. What is the greatest common factor of 16 and 36?                | 2. First prime number after 17-Down                              |
| 4. Three times 13-Down   | 6. First prime number after 7-Down                               |
| 5. <b>one hundred seventy-six thousand, seven hundred thirteen</b> | 7. 6   |
| 9. How many factors does 4 have?                                   | 8. 19  |
| 11. Average of 4-Across and 16-Across                              | 10. What is the lowest common multiple of 12-Down and 13-Across? |
| 13. One-third of 4-Across  | 12. What is the greatest common factor of 24 and 70?             |
| 14. What is the greatest common factor of 42 and 56?               | 13. $5 + 19$   |
| 15. What is the greatest common factor of 6-Down and 14-Across?    | 17. What is the lowest common multiple of 19-Across and 7-Down?  |
| 16. Two times 13-Across  | 19. What is the greatest common factor of 25 and 55?             |
| 17. One-eighth of 13-Across  |  |
| 18. What is the greatest common factor of 7-Down and 17-Down?      |  |
| 19. How many factors does 16 have?                                 |  |



Name: \_\_\_\_\_

Make change. You can use \$20, \$10, \$5, \$1, 25¢, 10¢, 5¢, or 1¢.

Use the fewest bills and coins to make \$23.34.

			\$1
	5¢		

Use the fewest bills and coins to make \$31.28.

Use the fewest bills and coins to make \$16.52.

Use the fewest bills and coins to make \$24.24.

Megan is younger than Rosa. Rosa is younger than Hannah. Who's the youngest?

$$995 - 556 = \underline{\hspace{2cm}}$$

word root **cent** can mean **hundred** **centipede, century**

Name: \_\_\_\_\_

Rose's stopwatch says she has been running for 28 minutes and 37 seconds. If the time is 2:16 p.m. and she is trying to run for 42 minutes without stopping, what time will it be when she could stop?

Adam made his own coin. On one side, he colored it red. On the other side, he colored it green. Let's assume his coin is fair. Each time he tosses it, there is a 50/50 chance of either color. If he tosses his coin two times, what is the chance that either one of the tosses will be green and his other toss will be red?

The Yellow Jackets won their basketball game! Two players each scored 10 points, two players each scored 12 points, and two players each scored 6 points. What was the average number of points scored by each player? Round your answer to the nearest point.

Emily has a robotic fly that with one charge can fly for 3 minutes and 20 seconds. It has to flap its wings 321 times per minute to stay in the air. How many times will it flap its wings during one flight after a full charge?

Name: \_\_\_\_\_

Can you draw lines to cover every number or shape in the picture?

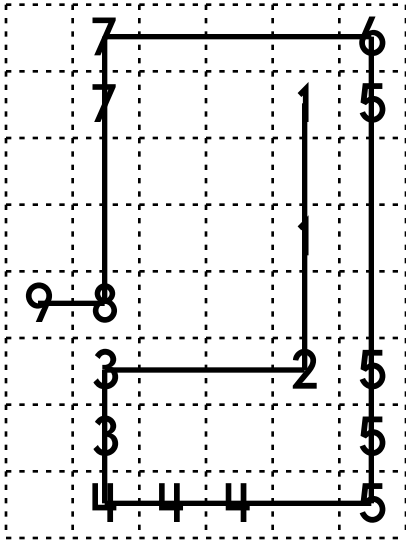
You can only move left, right, up, or down. And definitely no starting or stopping in a blank spot!

The first one is already done for you. Good luck.

Draw exactly 8 lines.

Start on 1.

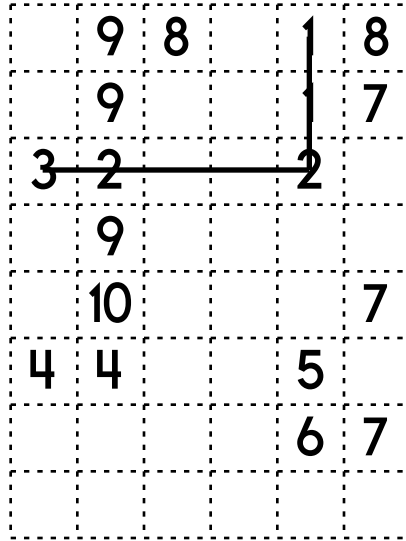
Do not pick up your pencil.



Draw exactly 9 lines.

Start on 1.

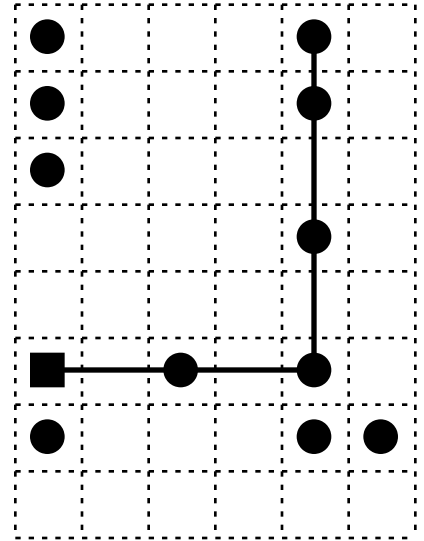
Do not pick up your pencil.



Draw exactly 5 lines.

Start on the square.

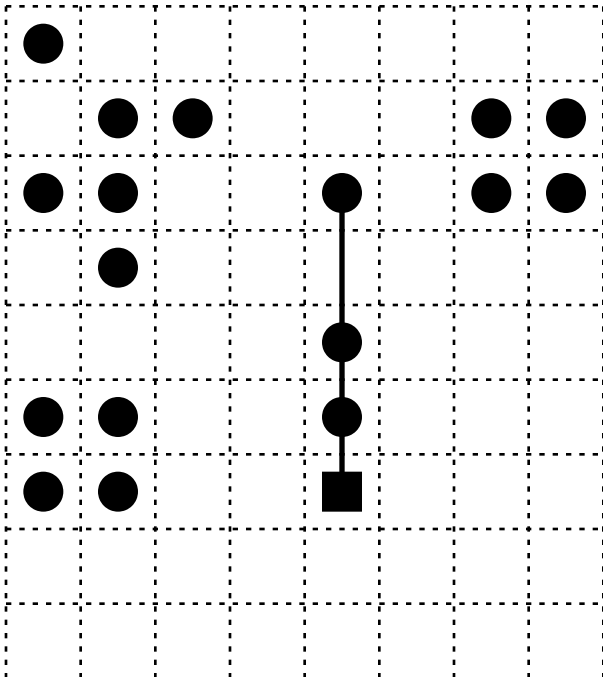
Do not pick up your pencil.



Draw exactly 7 lines.

Start on the square.

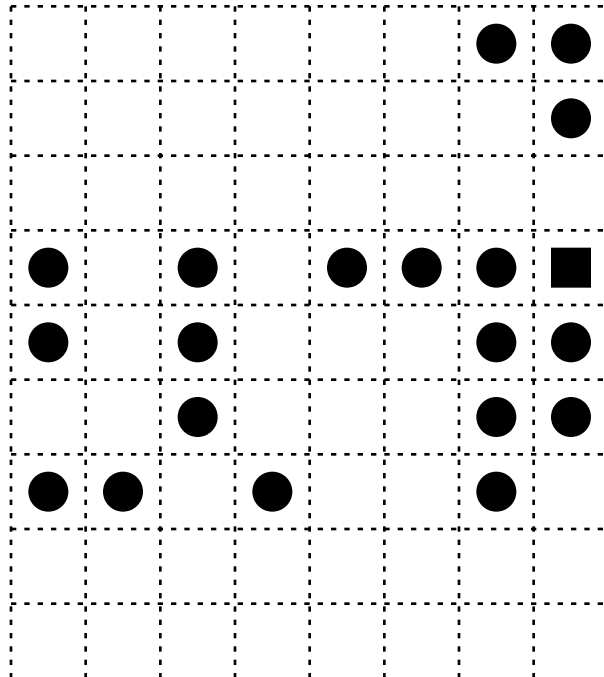
Do not pick up your pencil.



Draw exactly 8 lines.

Start on the square.

Do not pick up your pencil.



Name: \_\_\_\_\_

Alex and April are a team. Alex makes robots, and April fits them for fancy robot clothes. They have two models. Model One is very small at only 9.4 inches. The other is bigger, but Alex only gave April a calculation as the robot is still in production. Alex wanted it to be 3 times the size of Model One, but it turns out the prototype is 5.4 inches shorter than that. How big is the prototype?

Rewrite these numbers in order from least to greatest.

-5

-6

-5.179

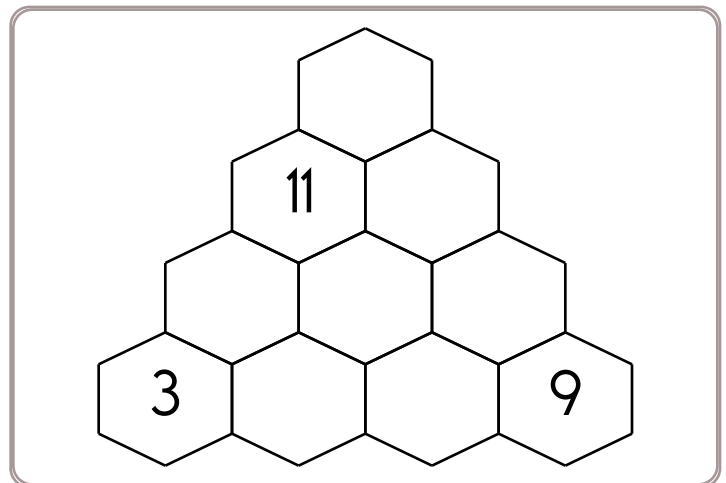
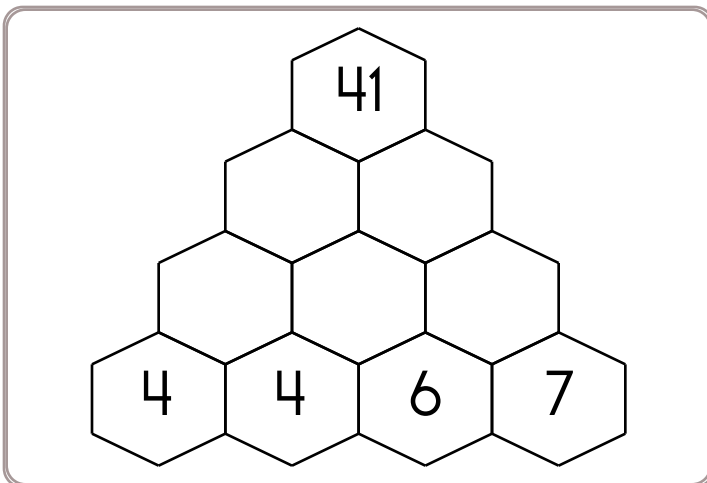
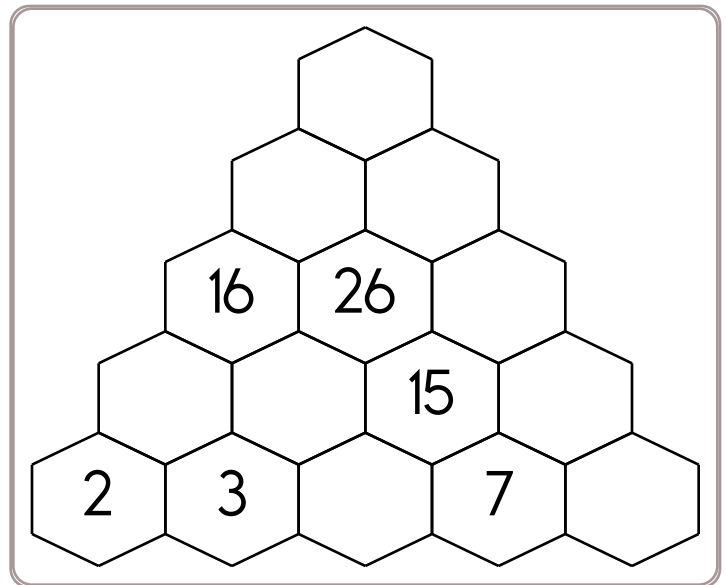
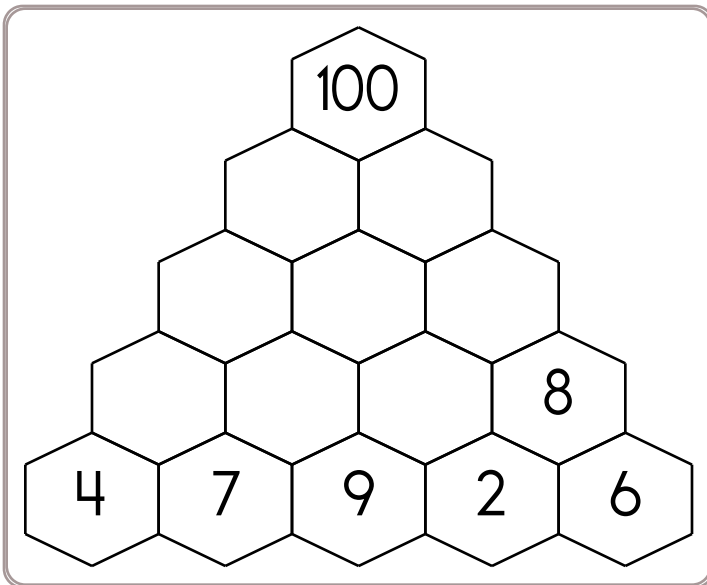
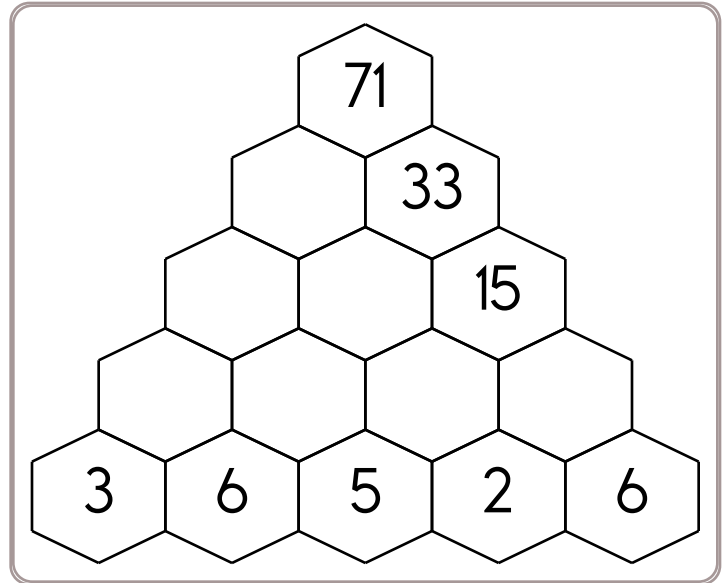
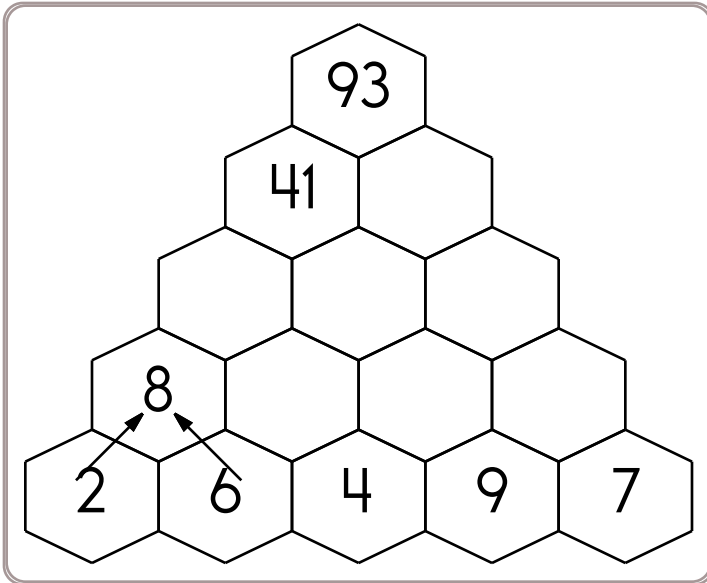
-5.07

-6.1

The (make-believe) country of Slowmonia, after 16 years of research, launched a rocket into space to land on Pluto. It is slow! It travels 3.238 kilometers in a month. How far will it travel in 4 years?

Name: \_\_\_\_\_

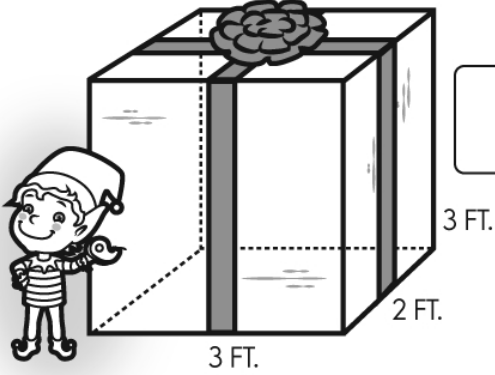
Fill in the blanks by adding the two numbers below each hexagon.



Name: \_\_\_\_\_



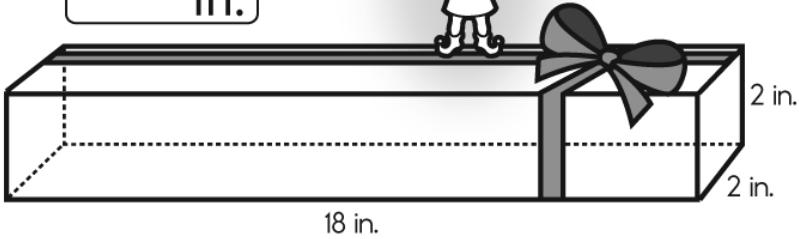
area of front  
area of back  
area of top  
area of bottom  
area of side  
+ area of side  
-----  
surface area



Surface Area  
 ft.<sup>2</sup>

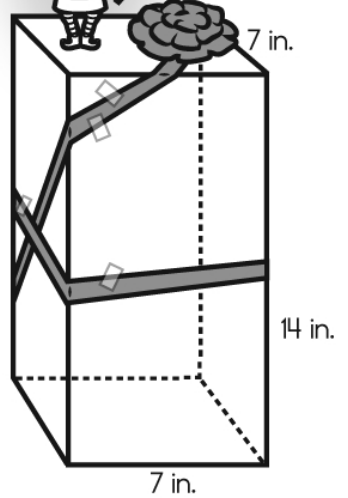
Surface Area

in.<sup>2</sup>



Draw, label, and find the area of a 5 x 5 x 5 inch cube.

in.<sup>2</sup>



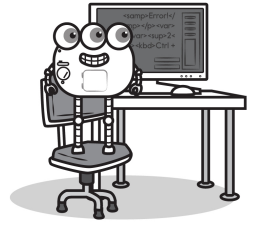
Surface Area

in.<sup>2</sup>



Name: \_\_\_\_\_

Robot was given a math problem to solve.



Mrs. White, the fourth grade health teacher, told her class that she is 3 decades 5 years old. How old is Mrs. White in years?

Robot wrote this program in Python to solve it.

```
# Define the values
decades = 3
years_in_decade = 10
extra_years = 5

# Convert everything to years
mrs_white_age = decades * years_in_decade + extra_years

print(f"Mrs. White is {mrs_white_age} years old")
```

Robot's program will print the answer to the math problem.

What will the program print out? Fill in the blanks.

Mrs. White is \_\_\_\_ years old



### Hints and a Question

To multiply in Python `*` is used.

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

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.

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

3 4 1 2

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

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

1 3 2 4

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

Hint - These numbers are missing:

2 3 4 3 3 3 1 1 2 1

10 x 6 = \_\_\_\_\_

Name: \_\_\_\_\_

Fill in the missing numbers.

What is the value of  $v$ ?

$$6v + 19 - 2v = -7$$

$$9 \times (48 \div 4) - 54 \div 6 =$$

$$9 \times 9 \times 9 \times 9 = x^4$$

What is the value of  $x$ ?

What is the mode of the following number set?

98, 87, 85, 104, 91, 92, 86, 88,  
91, 84, 89, 102, 95, 95, 84

Convert  $72\frac{11}{12}$  to an improper fraction.

If

10,000,000,000

$= 10^x$ , then what is the value of  $x$ ?

If  $z = 12$  and  $n = -5$  then what is  $z^2 \cdot n^2$ ?

48, \_\_\_\_\_, 64, 72, 80, 88

$$|-15| + x = 18$$

$x =$

The letter  $p$  is used to represent power points in a game. The points must be greater than 624 but less than 2,052. Express this as an inequality.

The angles in a quadrilateral measure  $89^\circ$ ,  $110^\circ$ ,  $81^\circ$ , and  $f^\circ$ . What is the value of  $f$ ?

$$\frac{1}{m} + \frac{4}{5} = 1\frac{3}{10}$$

$m =$

Name: \_\_\_\_\_

$$\frac{2}{4}$$

$$\frac{3}{5}$$

$$\frac{2}{8}$$

$$\frac{5}{6}$$

$$\frac{3}{7}$$

Name two of the above numbers that have a sum of  $\frac{13}{14}$ .

Use any of these digits. Cross off a digit after you use it.

2      0      3      0      8      8      6      4      9

Write the smallest 2-digit number that you can come up with that is divisible by 3.

What is 50% of 596?

65, 82, 99, 116, 133, 150,

\_\_\_\_\_, 184, 201, 218

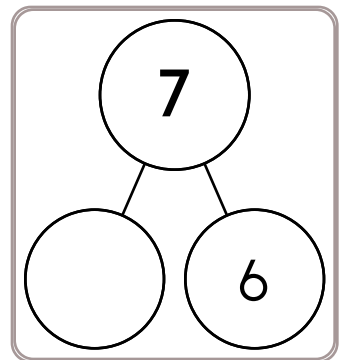
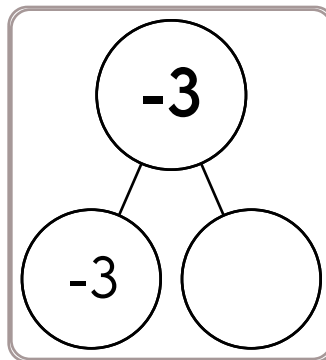
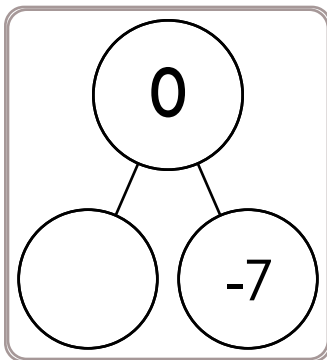
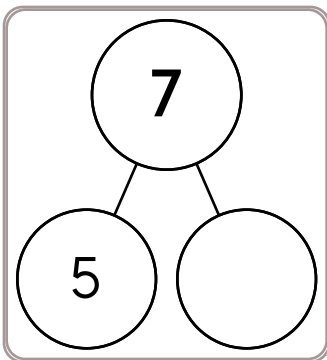
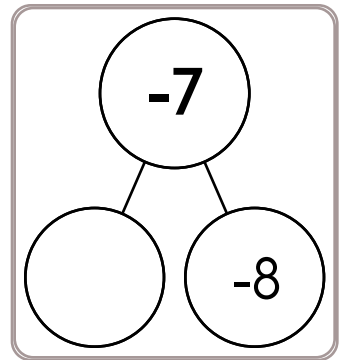
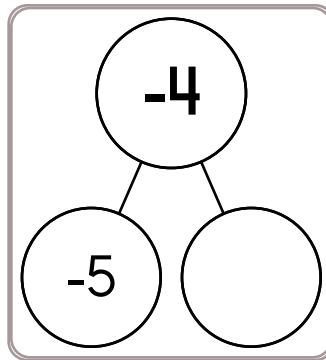
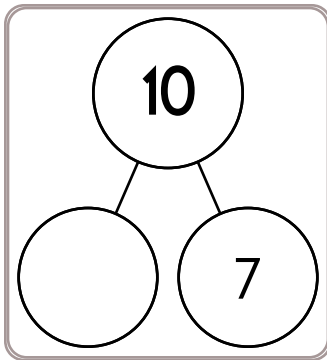
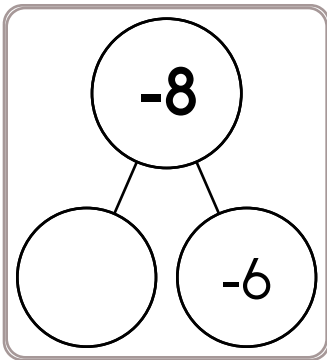
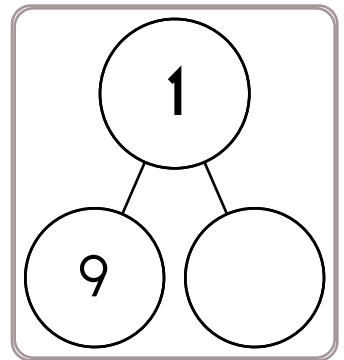
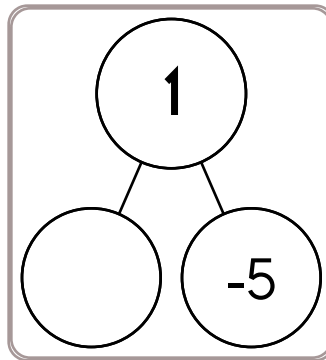
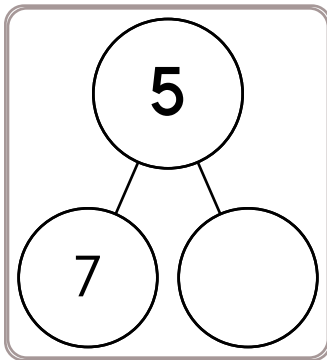
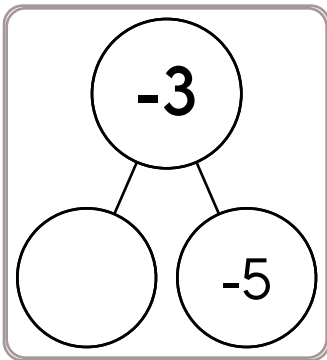
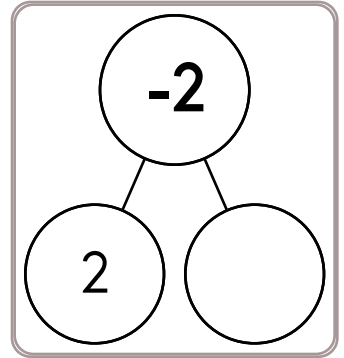
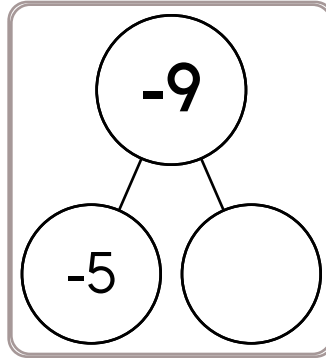
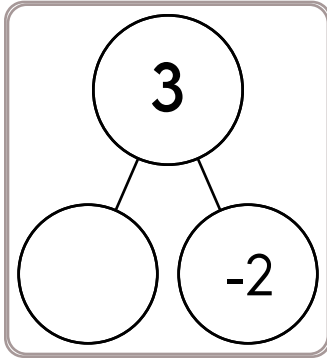
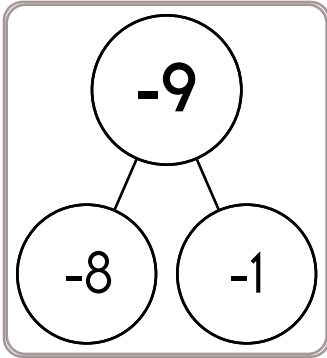
How many centimeters in 1.7 meters?



Name: \_\_\_\_\_

Get a fidget spinner! Spin it.

I needed to spin \_\_\_\_\_ time(s) to finish.



Name: \_\_\_\_\_

Percentage	Fraction
70%	$\frac{70}{100}$
55%	
85%	
	$\frac{40}{100}$

Fraction	Decimal
$\frac{2}{10}$	
	0.27
$\frac{56}{100}$	
$\frac{54}{100}$	

Percentage	Decimal
60%	
	0.26
75%	
1%	
	0.03
72%	

Decimal	Percentage
0.4	
0.83	
	88%
0.08	
	87%
0.16	

$\begin{array}{r} 7.54 \\ + 7.43 \\ \hline \end{array}$
---

$\begin{array}{r} 4.6 \\ - 3.97 \\ \hline \end{array}$
--

What is the sum of 17.9 and 6.8?

Name: \_\_\_\_\_

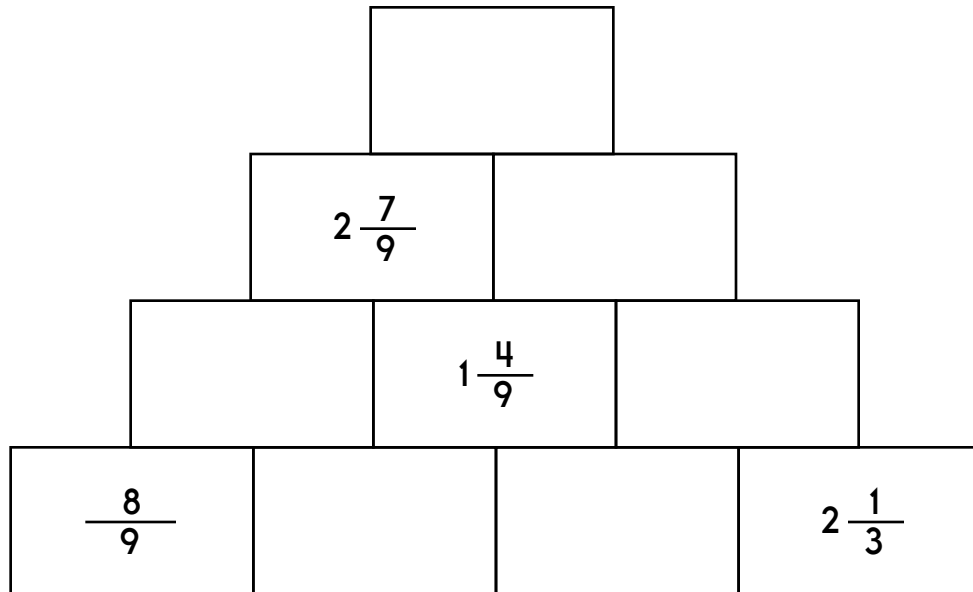
Mr. Bloop added 32 grams of salt to 24 grams of sugar and then added an amount of sand equal to the total mass of the salt and sugar he already had. Nobody knows why he did this—he just did it. What was the total mass of the mixture when he was finished?

Kevin is a marine biologist studying sponges in Seaside Bay. There are some short round ones (SR) and some tall long ones (TL). There are a few that are tall and branched (TB) as well. According to his recent population survey these organisms exist in an approximate SR:TL:TB ratio of 2.8:3.1:1.6. If there are 295 TL, what is the size of the total sponge population in Seaside bay? Round your answer to the nearest whole number.

What is the probability of choosing a heart from a standard deck of 52 randomly arranged playing cards?

Jacob scored about  $\frac{3}{8}$  of his team's goals during the hockey tournament that just ended. If the team scored 17 goals, how many did Jacob score?

							754.5							
2.4	7.1	15	8.8	11.9	19	16	35							



$5,251 + 4,815 =$ _____		$9 \times 4 =$ _____
$6 \times 10 =$ _____	$3 \times 10 =$ _____	$2 \times 6 =$ _____



Name: \_\_\_\_\_

Fill in each box of the edHelperKu puzzle, using the numbers from 1 to 6.  
 Every row must contain the numbers 1, 2, 3, 4, 5, and 6.  
 Every column must contain the numbers 1, 2, 3, 4, 5, and 6.  
 In a cage with a plus sign, the given number will be the sum of all the digits in the cage.

16+			3	4+	8+
11+	16+		15+		
		8+	6+	13+	
3	7+			17+	
			6		2

Fill in the blanks. These equations are from the puzzle above.

$5 + \underline{\hspace{1cm}} = 11$

$1 + \underline{\hspace{1cm}} = 4$

$\underline{\hspace{1cm}} + 4 + \underline{\hspace{1cm}} + \underline{\hspace{1cm}} = 15$

$1 + \underline{\hspace{1cm}} + \underline{\hspace{1cm}} = 8$

$\underline{\hspace{1cm}} + \underline{\hspace{1cm}} + 1 + \underline{\hspace{1cm}} + \underline{\hspace{1cm}} = 16$

$5 + \underline{\hspace{1cm}} = 6$

$2 + \underline{\hspace{1cm}} + \underline{\hspace{1cm}} = 7$

$\underline{\hspace{1cm}} + \underline{\hspace{1cm}} + 6 = 17$

$\underline{\hspace{1cm}} + \underline{\hspace{1cm}} + 3 = 8$

$2 + \underline{\hspace{1cm}} + \underline{\hspace{1cm}} = 13$

Name: \_\_\_\_\_

**FUN  
BREAK!**

# Play a game online!

[edHelper.com/math-games.htm](http://edHelper.com/math-games.htm)**I PLAYED  
ONE  
GAME**
☐
(Check the  
box after  
you play.)**MY SCORE**

\_\_\_\_\_



What is the value of h?

$$9h + 19 - 2h = -5$$

$$586 \div 10$$

$$5 \times 5 \times 5 \times 5 = Z^y$$

What is the value of Z  
and y?

$$\frac{7}{8} \times \frac{8}{11}$$

Simplify.

$$\frac{6}{27} =$$

Circle the percentage that  
is closest to 32 out of 58:

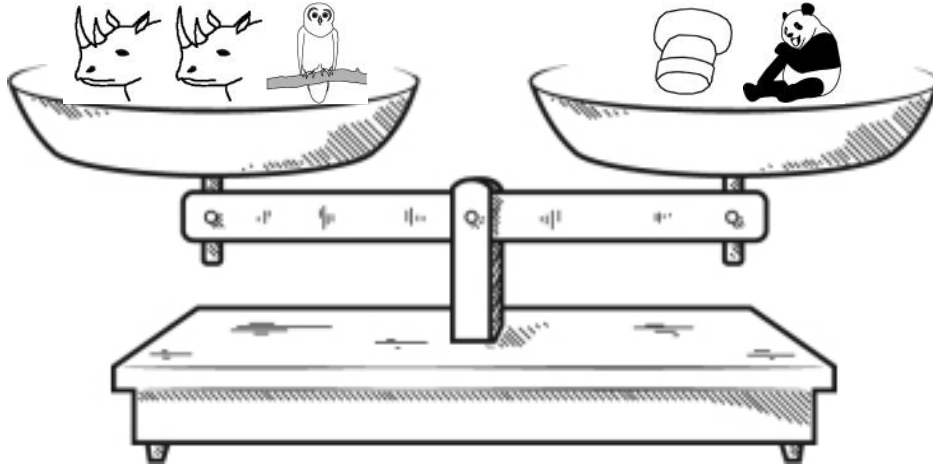
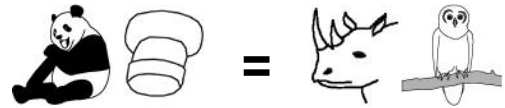
53%

96%

34%

15%

Name: \_\_\_\_\_

☐ True☐ False☐ True☐ False☐ True☐ False☐ True☐ False☐ True☐ False☐ True☐ False

Did you find that one is true? If not, look again!  
 You should only mark TRUE if you are absolutely sure it is correct!

Name: \_\_\_\_\_

The length of a rectangle is seven times its width. The area of the rectangle is six thousand, three hundred square feet. What is the perimeter of the rectangle?

Victoria, who weighs ninety pounds, sat six feet from the center of a seesaw. Justin sat five feet on the other side of the center to balance the seesaw. How much does Justin weigh?

The EdHelper convention offered tickets at twenty-five percent off for those that purchased tickets one month in advance. The number of tickets sold at normal price was three hundred sixty-two more than two times the number of discounted tickets. The total sales of 701 tickets came to \$43,056. How much was the price of a non-discounted ticket?

$7\frac{5}{8}$  added to three times a number is  $28\frac{1}{40}$ . What is the number?

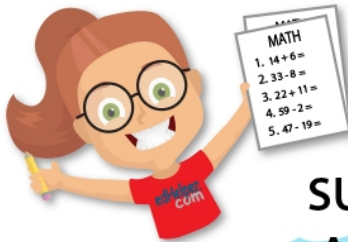
The width of a rectangular garden is eighteen feet less than the perimeter. The area of the rectangle is one thousand, nine hundred thirty-eight square feet. What are the dimensions of the rectangle?

Nicole wants to mix 7 liters of 7% milk with skim-milk (0% fat) to produce a mixture of 4% milk. How much skim-milk should Nicole add?

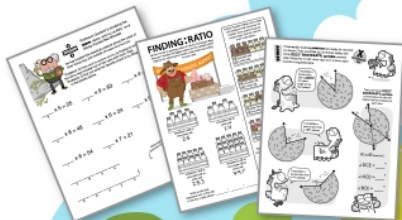
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