| 69 | -61 | | +75 | | -1 | | -30 | | -2 | |

| 72 |
| +2 |
| -4 |
| -5 |
| +65 |
| +9 |
| -13 |

| +3 |
| -31 |
| +35 |
| -29 |
| +22 |
| +8 |
| 58 |
| +7 |

Name: _____

Pick 25 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 27
☐ page 4   ☐ page 10   ☐ page 16   ☐ page 22
☐ page 5   ☐ page 11   ☐ page 17   ☐ page 23
☐ page 6   ☐ page 12   ☐ page 18   ☐ page 24
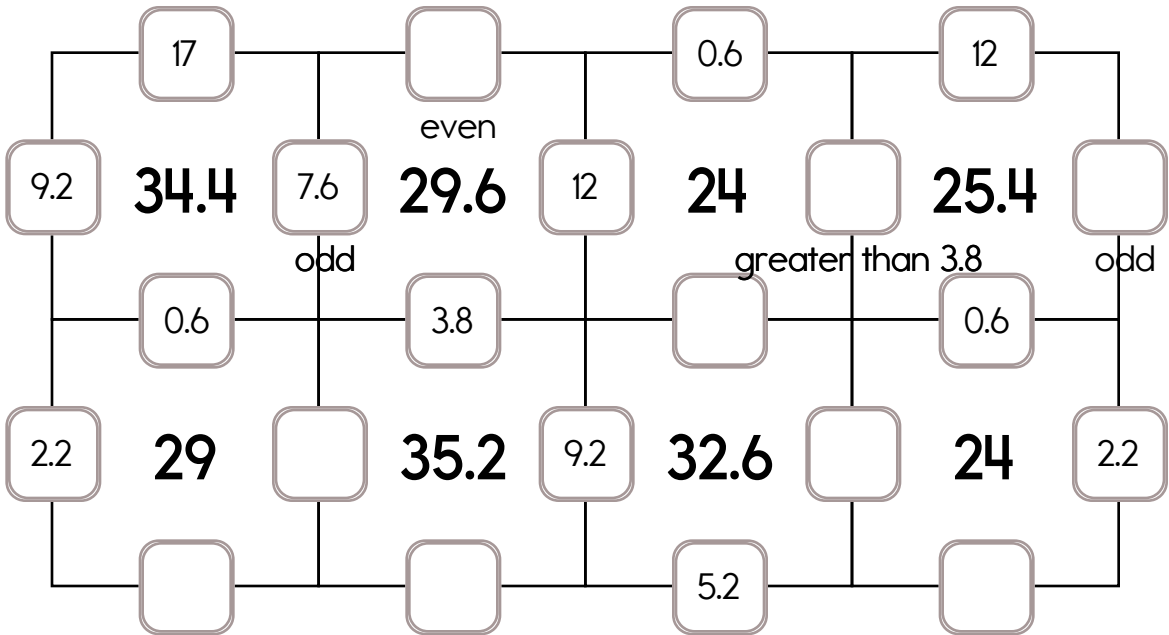
Fill in the missing numbers. How? The sum of the four surrounding numbers is in the center of each square.
Exactly one of the four numbers has to be one of these numbers: 12, 17, or 26.
The other three numbers have to all be DIFFERENT and must be from these: 7.6, 9.2, 5.2, 3.8, 6.2, 2.2, or 0.6.

| 17 | | | 0.6 | 12 |

even

| 9.2 | **34.4** | 7.6 | **29.6** | 12 | **24** | | **25.4** | |

odd   greater than 3.8   odd

| 0.6 | | 3.8 | | | 0.6 |

| 2.2 | **29** | | **35.2** | 9.2 | **32.6** | | **24** | 2.2 |

| | | 5.2 | |

| +6 | | -47 | | +26 | | -11 | | -21 | |

Name: _____

X		6		7	6
	21 ___x___	___x _6_	___x___	___x _7_	___x _6_
5	15 _5_ x ___	30 _5_ x _6_	15 _5_ x ___	_5_ x _7_	_5_ x _6_
	___x___	___x _6_	___x___	7 ___x _7_	6 ___x _6_
	___x___	___x _6_	___x___	28 ___x _7_	___x _6_
6	18 _6_ x ___	_6_ x _6_	_6_ x ___	_6_ x _7_	36 _6_ x _6_

How do you know if a number is divisible by 9? Use this trick.

62,608,374 _6_ + _2_ + _6_ + _0_ + _8_ + _3_ + _7_ + _4_ = ☐☐

☐ + ☐ = ___   Is that a multiple of 9? Circle: Yes   No

Circle one: 62,608,374 is divisible by nine   62,608,374 is not divisible by nine

258,921   ___+___+___+___+___+___ = ☐☐

☐ + ☐ = ___   Is that a multiple of 9? Circle: Yes   No

Circle one: 258,921 is divisible by nine   258,921 is not divisible by nine

Name: _____

Wonky Polygon Houses

triangle
3 sides

square
4 congruent sides
4 right angles

rectangle
4 sides
4 right angles

parallelogram
4 sides
2 pairs of parallel sides
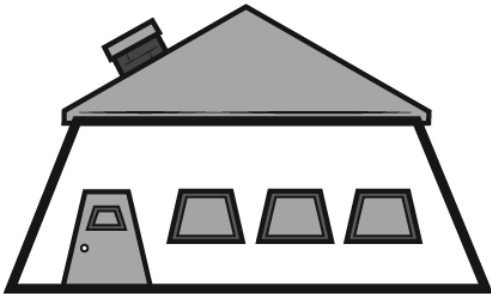
trapezoid
4 sides
1 pair of parallel sides

Polygon: a closed shape made up of straight lines

Name the Polygon

_____   _____   _____

Draw your own wonky polygon house:

_____

What kind of polygon did you draw? _____

Name: _____

Alex 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. Alex spent $11.22 on milk, eggs, cheese, and cookies. He gave the clerk $20. How much change did he get?

Max wants to have fun on National Splurge Day. He is going to the Fun Park. He wants to ride the Terror Train 19 times! The Terror Train ride lasts 2 minutes and 11 seconds. If he rides it 19 times, how many minutes will he spend on the Terror Train?

Robot Megan likes to be tricked. Show at least 5 different ways to make 8,500. One of your ways should be WRONG to trick Robot Megan.

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

vtfii-ysxe _____ (65)

tsn-xiyetw _____

Name: _____

FUN BREAK!

Play a game online!

edHelper.com/math-games.htm

Nice work!

I PLAYED ONE GAME

☐ (Check the box after you play.)

MY SCORE

_____

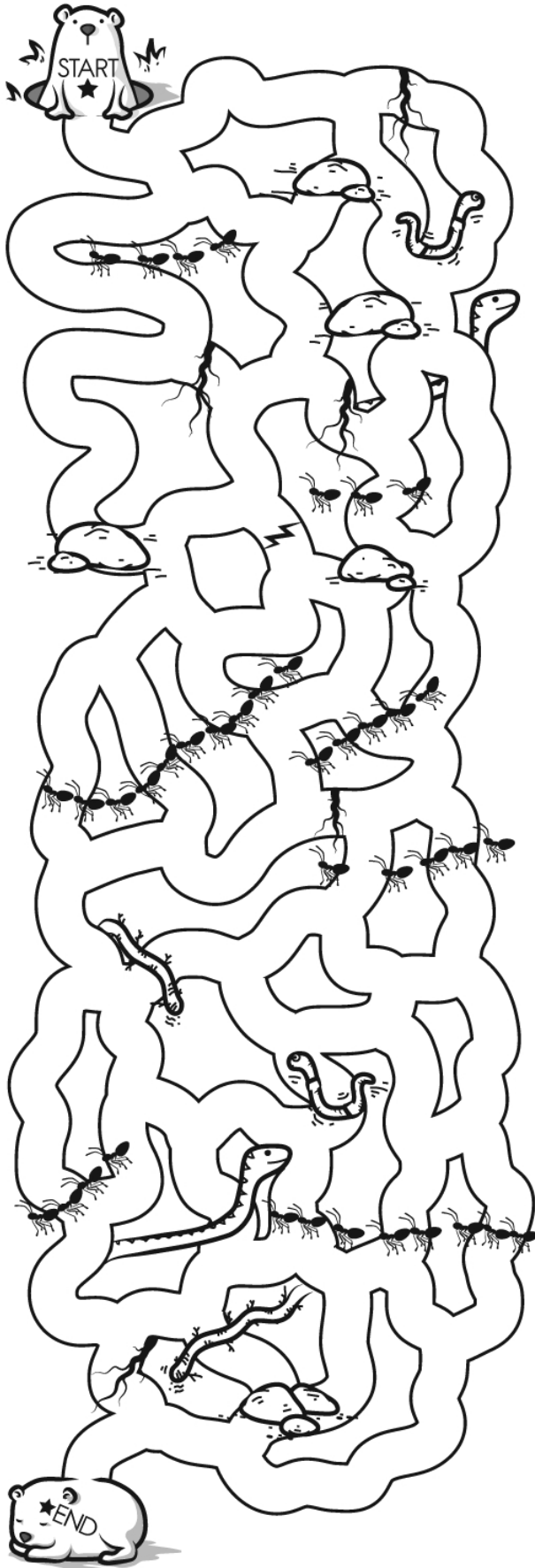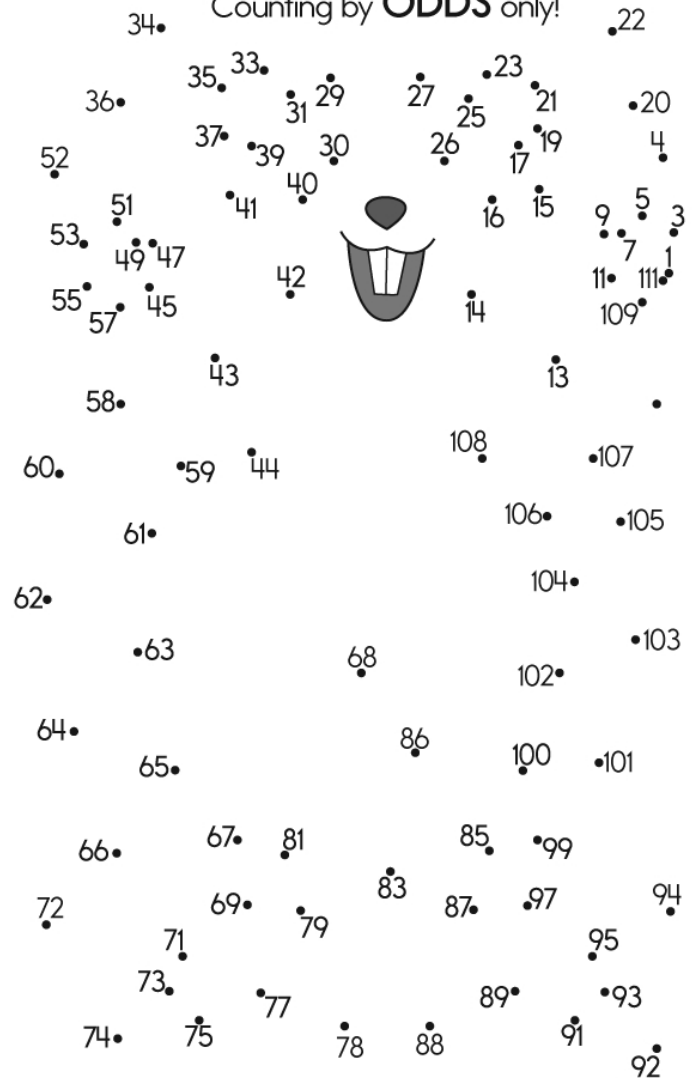|		
How many total legs are on 4 elephants and 3 chickens?	How many total legs are on 12 zebras?	Which number has exactly 7 millions?
The number 66 is more than the number 8 by how much?	Write the least possible 4-digit number using only 3 different numbers.	(4 x 6) + 9

Name: _____

START

Connect the Dots
Counting by ODDS only!

34 33 23 22
35 31 29 27 21 20
36 37 25 19 4
52 39 30 26 17
51 40 16 15 9 5 3
53 41 42 7 1
49 47 11 111
55 57 45 14 109
43 13
58
108 107
60 59 44
106 105
61 104
62 103
63 68 102
64 86
65 100 101
66 67 81 85 99
72 69 83 87 97 94
71 79 95
73 89 93
74 75 77 78 88 91
92

Complete the groundhog!

END

edHelper.com/math_workbooks.htm
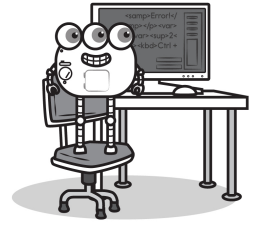
Math Workbook

Name: _____

Robot was given a math problem to solve.

Jack liked to blow soap bubbles for his dog to chase. His dog chased the soap bubbles and bit at them. When they broke, she got soap all over her face! If Jack blows 22 soap bubbles for his dog every day, how many bubbles does he blow in 5 days?

Robot wrote this program in Python to solve it.

```
bubbles_per_day = 22
days = 5

total_bubbles = bubbles_per_day * days

print(total_bubbles)
```

Robot's program will print the answer to the math problem.
What will the program print out? Fill in the blanks.

___ ___ ___

Hint and a Question
To multiply in Python * is used.
test_multiply = 5 * 11   # assign 55 to the variable test_multiply
print(test_multiply)   # this would print test_multiply to the screen

Write a line of code to calculate the product of 7 times 19 and store it in the variable cookies_to_bake.

Math Workbook

Name: _____

Write your own math problem here.

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

Name: _____

FUN BREAK!

Play a game online!

edHelper.com/math-games.htm

I PLAYED
ONE
GAME

☐ ← (Check the box after you play.)

MY SCORE

_____

Nice work!

If you exchange 80 dimes for dollars, then how many dollars would you get?

---

24 ÷ 6 =

How much greater is 188 than 39?

4799, 9479, 9947, 7994,

4799, 9479, 9947,

_____, 4799, 9479,

9947, 7994, 4799, 9479

---

5 x ___ = 40 = ___ x 20

4 x ___ = 28 = ___ x 14

9 x ___ = 99 = ___ x 3

4 x ___ = 32 = ___ x 16

There are 3 groups of 4 rocks. How many rocks?

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.

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

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

4   2   1   3

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

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

4   2   1   3

1		1	2
4		4	3
2	1		

Hint - These numbers are missing:

2   2   3   1

4	3	2	1
	1	4	
4	3	2	

Hint - These numbers are missing:

2   3   1

Count by 4s.

38 ____ 46

word root **mar** can mean **sea**   **aquamarine, marine, submarine**

edHelper.com/math_workbooks.htm

Math Workbook

Name: _____

Fill in the missing numbers.

Puzzle 1

		2	
3		3	1
	2	4	2
1	3		3

Hint - These numbers are missing:

4   2   4   1   1   4

Puzzle 2

2			
4	1		1
3	2	3	2
		4	1

Hint - These numbers are missing:

1   4   4   3   3   2

Puzzle 3

	4	3	1
	1		4
2		3	1
3			4

Hint - These numbers are missing:

2   4   1   3   2   2

Puzzle 4

1	4		
3	2		2
4	1	4	1
			3

Hint - These numbers are missing:

3   2   4   1   2   3

15 + ____ = 25

Double four.

$$\begin{array}{r} 4 \\ +\ 3 \\ \hline \end{array}$$

Name: _____

What is the missing digit?

```
   1 3 2 5
 -   6 1 ○
   ─────────
     7 0 9
```

Skill: Subtraction

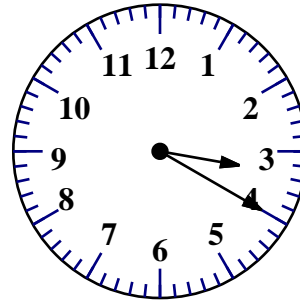Color $\frac{1}{2}$ of the figure.
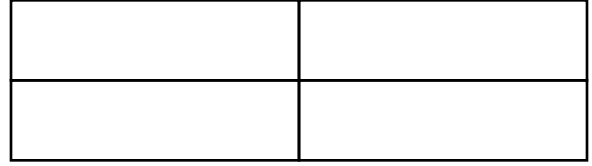
Skill: Fractions

---

100 more than 360 is

Skill: Place Value and Large Numbers

What time is it?

Skill: Clocks and Time

---

3 and 2 are _____ numbers.

(encrypted)   (prime)

(composite)   (irrational)

Skill: Estimation and Number Theory

```
   3 8
 + 5 6
 ───────
```

Skill: Addition

In 7,524, what does the digit 7 stand for?

(7 hundreds)   (7 tens)

(700 hundreds)   (7 thousands)

Skill: Whole Numbers and Place Value

Which is the best estimate of 67 x 37?

(70 x 50)   (80 x 40)   (70 x 40)

(80 x 50)

Skill: Estimation and Number Theory

Name: _____

Sarah and Eric were busy playing their phones. Sarah knew what game she wanted to play.

"Emoji battle!" yelled Sarah.

"The emoji challenge is on," replied Eric.

Sarah immediately started typing as many emojis as she could. Click. She sent 36 emojis in 3 seconds.

As soon as Eric received the emojis he could start to reply. Would you believe he clicked emojis at the same speed as Sarah? He clicked for 5 seconds and sent the emojis.

How many emojis did Sarah receive?

Max was paying close attention. Without telling them, he created a message to both Sarah and Eric. He could type emojis at a rate of 22 per second. After 8 seconds he clicked send. How many emojis did Sarah and Eric each receive?

Draw a picture of your favorite emoji when you are done answering!

Name: _____

Secret Mission: You have been hired to develop and evaluate robots' math skills. Sometimes, they give thorough, correct explanations. However, they occasionally go haywire.

Robot Rita was given a math problem to solve.

Jenna likes to draw triangles, but isosceles triangles are her favorite.

"They are so cool," she explains. "They have two equal sides and two equal angles. After I draw the triangle, I write the angle that is the same. Can you guess the third angle?"

She drew a red triangle and wrote 39°. She drew a blue triangle and wrote 59°. She drew a yellow triangle and wrote 45°. What is the third angle for each of her triangles?

Robot Rita thinks this might be the answer:
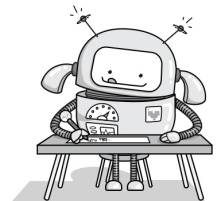
The sum of all angles inside a triangle is always 180 degrees. In an isosceles triangle, two of the angles are the same and the third angle is calculated by subtracting the sum of the two equal angles from 180.

For the red triangle:
Two equal angles are 39 degrees each, summing up to 78 degrees.
Subtracting this from 180 gives the third angle: 180 - 78 = 102 degrees.

For the blue triangle:
Two equal angles are 59 degrees each, summing up to 118 degrees.
Subtracting this from 180 gives the third angle: 180 - 118 = 62 degrees.

For the yellow triangle:
Two equal angles are 45 degrees each, summing up to 90 degrees.

Name: _____

Subtracting this from 180 gives the third angle: 180 - 90 = 90 degrees.

To summarize, the third angles for the red, blue, and yellow triangles are 102 degrees, 62 degrees, and 90 degrees respectively.

Robot Rita did not explain too much. How do you think Robot Rita could have shown her work better?

She is not sure that is correct, so she asked Robot Rob for help. This is how he tries to solve the problem.
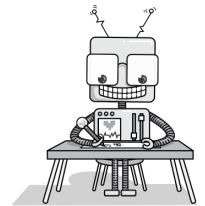
To solve this problem, you need to remember that the sum of the angles in a triangle always adds up to 180 degrees. For each triangle Jenna drew, two of the angles are the same, which she noted. To find the third angle, you would double the given angle (since they are the same) and subtract this from 180.

For the red triangle, Jenna wrote 39 degrees. Multiply that by 2 (which gives 78) and subtract from 180, which yields in 102 degrees. So the third angle is 102 degrees.

For the blue triangle, Jenna wrote 59 degrees. Multiply that by 2 (which gives 118) and subtract from 180, which yields in 62 degrees. So the third angle is 62 degrees.

For the yellow triangle, Jenna wrote 45 degrees. Multiply that by 2 (which gives 90) and subtract from 180, which yields in 90 degrees. So the third angle is 90 degrees.

Name: _____

If you were the teacher, how would you grade Robot Rob's work?
Explain and also make comments in Robot Rob's work.

Hint: EdHelper's answer pages gave this answer.

Red triangle's third angle is 102 degrees.

Blue triangle's third angle is 62 degrees.

Yellow triangle's third angle is 90 degrees.

Name: _____

Now that you have seen edHelper's answer and how Robot Rita and Robot Rob tried to solve this problem, how would you solve it? Show your steps and explain.

Jenna likes to draw triangles, but isosceles triangles are her favorite.

"They are so cool," she explains. "They have two equal sides and two equal angles. After I draw the triangle, I write the angle that is the same. Can you guess the third angle?"

She drew a red triangle and wrote 39°. She drew a blue triangle and wrote 59°. She drew a yellow triangle and wrote 45°. What is the third angle for each of her triangles?

Name: _____

Now it's your turn. You've seen how the robots tried to solve this problem, and you corrected their work. Now you try doing it!

Amy likes to draw triangles, but isosceles triangles are her favorite.

"They are so cool," she explains. "They have two equal sides and two equal angles. After I draw the triangle, I write the angle that is the same. Can you guess the third angle?"

She drew a purple triangle and wrote 35°. She drew a yellow triangle and wrote 25°. She drew a red triangle and wrote 42°. What is the third angle for each of her triangles?

Name: _____

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

| $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ |

$$\frac{\boxed{}}{3} = \frac{4}{12}$$

| $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ |

| $\frac{1}{6}$ | $\frac{1}{6}$ | $\frac{1}{6}$ | $\frac{1}{6}$ | $\frac{1}{6}$ | $\frac{1}{6}$ |

$$\frac{2}{12} = \frac{\boxed{}}{6}$$

$$\frac{1}{3}$$
$$\frac{1}{9}$$

$$\frac{2}{3} = \frac{\boxed{}}{9}$$

$$\frac{1}{10}$$
$$\frac{1}{2}$$

$$\frac{\boxed{}}{10} = \frac{1}{2}$$

$$\frac{1}{2}$$
$$\frac{1}{4}$$

$$\frac{\boxed{}}{2} = \frac{2}{4}$$

$$\frac{1}{2}$$
$$\frac{1}{6}$$

$$\frac{1}{2} = \frac{\boxed{}}{6}$$

$$\frac{1}{8}$$
$$\frac{1}{4}$$

$$\frac{\boxed{}}{8} = \frac{3}{4}$$

$$\frac{1}{10}$$
$$\frac{1}{5}$$

$$\frac{\boxed{}}{10} = \frac{\boxed{}}{5}$$

Name: _____

Annabelle "Toothless" Dawson was a mean pirate who spent most of her time counting her gold coins.

She certainly didn't spend it!

Today was a boring day at sea, and no other ships were in sight. It took her 4 hours and 10 minutes to count all of her gold coins.

That included 15 minutes when she was not counting her gold. She thought she heard someone drop gold across the ship. She was wrong, but you wouldn't want to tell her that!

When she is counting, she counts exactly 80 coins in 10 minutes.

How many gold coins does she have?

Show your work.

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?

Mental Math = Do it in your head!

imagine 4 in your head	imagine 7 in your head	imagine 7 in your head	imagine 5 in your head
multiply 9	add 1	multiply 6	add 6
add 8	multiply 3	subtract 6	double it
	subtract 7	add 6	subtract 9
	subtract 6	double it	subtract 8
			add 9
		Add the tens digit to the ones digit. Write the sum.	Write the even digit in your answer.
Write the ones digit.	Write the tens digit.		
____	____	____ ____	
A	B	C 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?

____ ____ ____ _h_ ____

4 after 11 _____   6 before 13 _____   7 after 14 _____

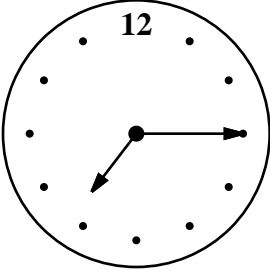6 after 15 _____   7 before 11 _____   9 after 12 _____
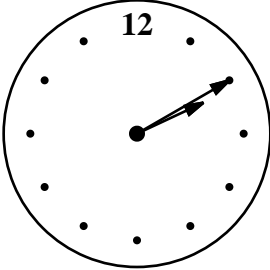
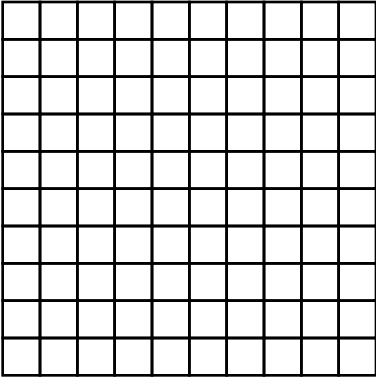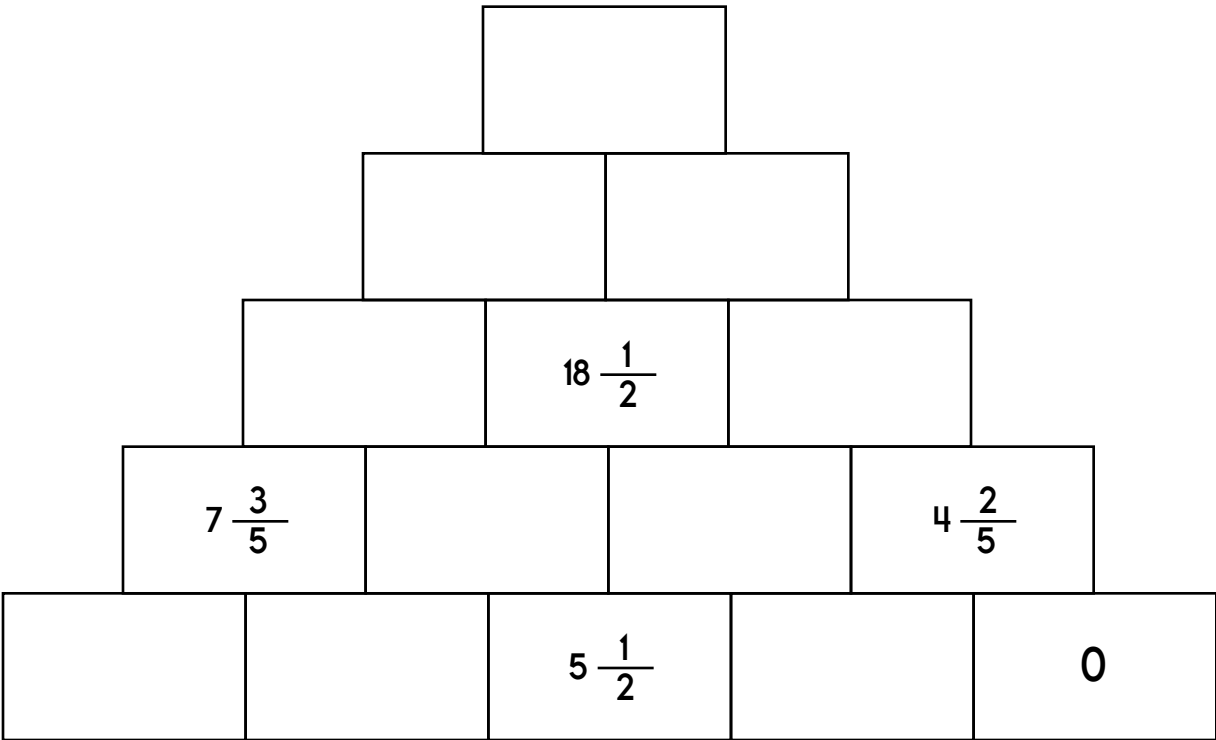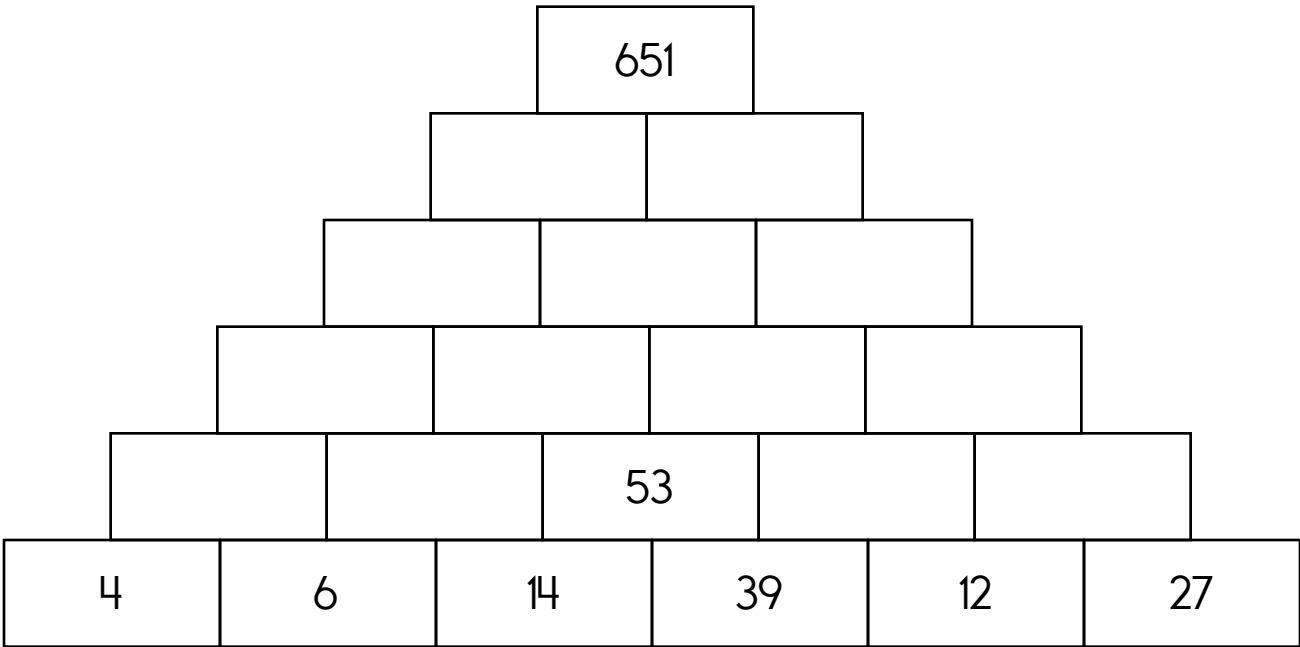5 after 17 _____   1 before 15 _____   8 after 16 _____

Name: _____

Megan's sister is a toddler. Megan baby-sits for 1 hour and 25 minutes each day. If she starts at 3:20 p.m., what time is she finished?

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?

Jenna is learning to be a juggler. She bought 5 juggling balls for $1.41 each, 2 scarves for $2.12 each, and a top hat for $8.87. How much money did she spend in all?

current time (pm)   **time party starts (pm)**

How long until the party? _____

What are the first four multiples of 4?

_____

Which number is eight thousand five hundred thirty-six?

3,586   8,536

8,635   85,036

Color $\frac{6}{10}$.

$$\begin{array}{r} 8\ 0 \\ -\ 5\ 2 \\ \hline \end{array}$$

$$\begin{array}{r} 5\ 3 \\ -\ 3\ 6 \\ \hline \end{array}$$

word root **ex** can mean **out or away**   **exclude, exclusive, extract**

Name: _____

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

651

(pyramid)

Row: 53

Bottom row: | 4 | 6 | 14 | 39 | 12 | 27 |

Second pyramid (fractions):

$18\frac{1}{2}$

$7\frac{3}{5}$ $4\frac{2}{5}$

$5\frac{1}{2}$ 0

What temperature is seven degrees above freezing in Fahrenheit?

_____

Write the correct symbol.

<   =   >

22,948 ◯ 23,948

$5\overline{)20}$

Math Workbook

Name: _____

ICE MOUNTAIN DECIMALS

Directions: Help Poe the Polar Bear finish decorating his ice mountain wall of math art.
Write the decimals in their correct order.

☐ < ◯ > ☐
3.12   1.98   2.75

☐ < ◯ < ☐
4.11   7.35   5.40

◯ > ☐
0.25   0.45

☐ > ☐ > ◯
9.02   4.30   7.10

☐ < ◯
6.11   6.02

☐ > ◯
2.030   2.501

☐ < ◯ > ☐
0.112   0.012   0.102

☐ > ◯
9.42   9.24

☐ > ☐ < ◯
8.13   3.83   8.31

◯ < ☐ < ◯
7.75   4.61   8.82

☐ < ◯
7.61   1.67

☐ > ◯ < ☐
5.98   5.89   8.95

Name: _____

Justin took three quarters, five dimes, three nickels, and six pennies to the store. He paid 82¢ for a chocolate milkshake. How much money did he have left?

Ms. Young bought 10 $\frac{3}{4}$ pounds of apples to make pies. She baked 4 pies. Each pie took 1 $\frac{1}{2}$ pounds of apples. How many pounds of apples did she have left after she baked the pies?

Mrs. Brown bought 3 packages of flags for her students. There were 15 flags in each package. The students used 32 flags. How many flags were left over?

Salmon fishing is very important in Alaska. Edensaw and his uncle caught 74 pounds of salmon. They sold it for $3.28 per pound. How much money did they receive for the salmon?

It was Harry Potter's birthday. He was 14 years old. It was so much fun having a party at Hogwart's with his friends! If he had come to Hogwart's when he was 13 years and five months old, how long had he been there?

Miss Wilson is going to four Mardi Gras parties. She bought a different feather mask for each party. The costs were $5.95, $5.94, $11.90, and $13.85. What is the average cost of the masks?

Name: _____

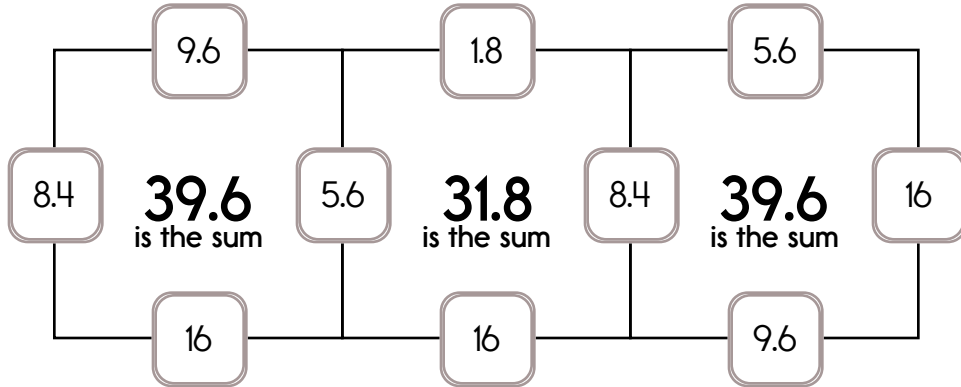This puzzle has a large number in the middle, which is the sum of the four numbers that surround it.

Example:

8.4 + 5.6 + 9.6 + 16 = 39.6

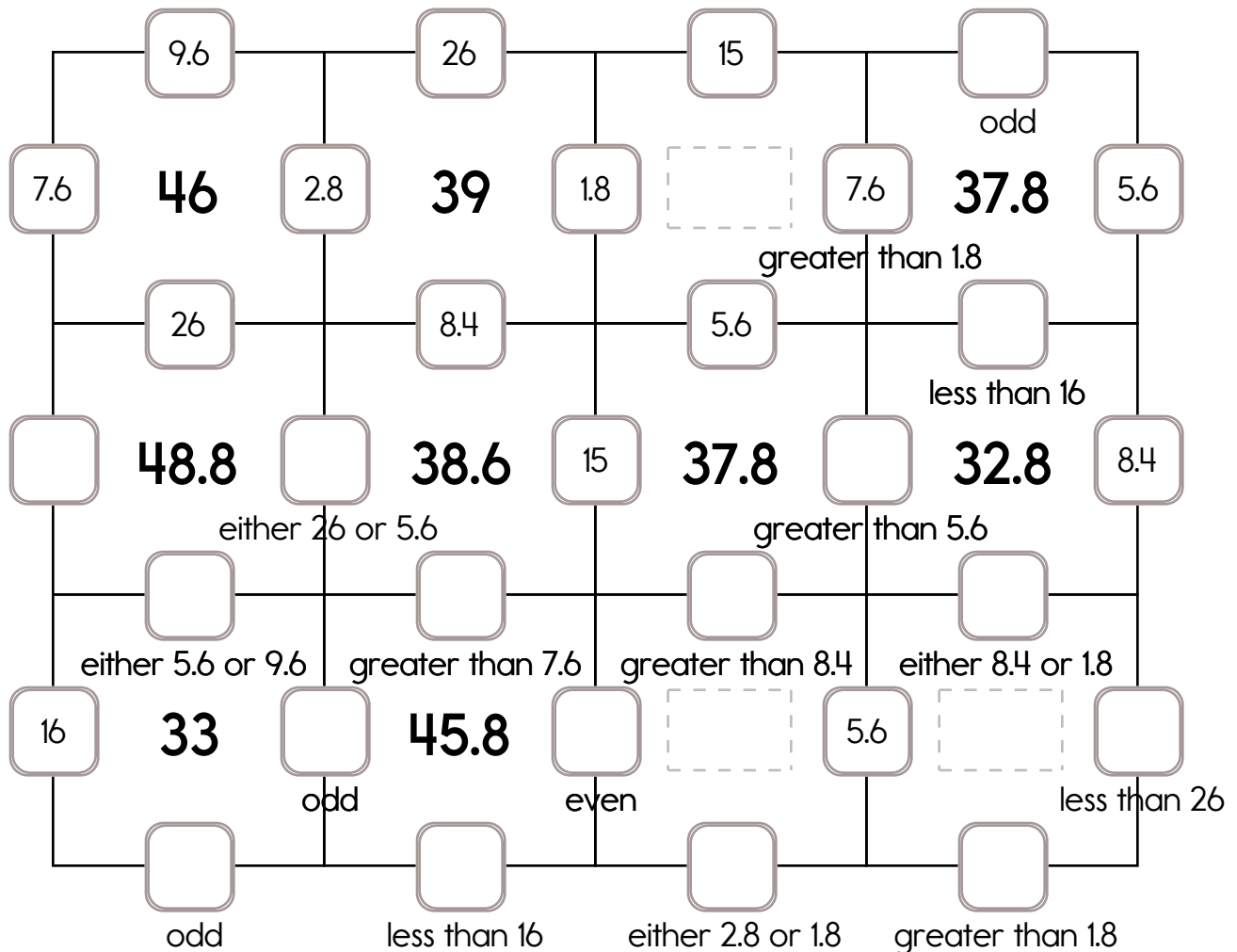Example:

8.4 + 16 + 5.6 + 9.6 = 39.6

Sample:

	9.6		1.8		5.6	
8.4	**39.6** is the sum	5.6	**31.8** is the sum	8.4	**39.6** is the sum	16
	16		16		9.6	

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, 26, or 16.

The other three numbers have to all be DIFFERENT and must be from these: 9.6, 1.8, 5.6, 7.6, 2.8, or 8.4.

	9.6		26		15		☐ odd	
7.6	**46**	2.8	**39**	1.8	☐ greater than 1.8	7.6	**37.8**	5.6
	26		8.4		5.6		☐ less than 16	
☐	**48.8**	☐ either 26 or 5.6	**38.6**	15	**37.8** greater than 5.6	☐	**32.8**	8.4
	☐ either 5.6 or 9.6		☐ greater than 7.6		☐ greater than 8.4		☐ either 8.4 or 1.8	
16	**33**	☐ odd	**45.8**	☐ even	☐ greater than 8.4	5.6	☐ less than 26	
	☐ odd		☐ less than 16		☐ either 2.8 or 1.8		☐ greater than 1.8	

Name: _____

Fill in the missing numbers. How? The sum of the four surrounding numbers is in the center of each square.

Exactly one of the four numbers has to be one of these numbers: 21, 16, or 19.

The other three numbers have to all be DIFFERENT and must be from these: 6.4, 9.6, 7.2, 1.8, 2.6, 0.6, or 4.4.

4.4	1.8	4.4	19

1.8 | **24.8** | 16 | **31.4** | 7.2 | **40.2** | ☐ | **39.4** | 6.4

2.6 | 6.4 (even) | ☐ (less than 21) | ☐ (less than 16)

0.6 | **26** | ☐ | **36.4** | ☐ | **28.6** | ☐ | ☐ | ☐

(greater than 0.6) — (either 16 or 1.8)

☐ | ☐ (greater than 7.2) | ☐ | ☐ (even)

☐ | **29.8** | ☐ | **30.6** | ☐ | **26** | ☐ | **36.8** | ☐

(even) — (even) — (less than 21) — (odd)

☐ | ☐ (either 1.8 or 6.4) | ☐ (odd) | ☐

☐ | **25.6** | ☐ | **29.4** | ☐ | **37.6** | ☐ | **36.4** | ☐

(less than 2.6) — (greater than 9.6) — (less than 9.6) — (odd) — (greater than 4.4)

☐ (odd) | ☐ (less than 6.4) | ☐ (either 4.4 or 1.8) | ☐ (even)

☐ | **32.6** | ☐ | **37.6** | ☐ | ☐ | ☐ | ☐ | ☐

(less than 4.4) — (less than 19) — (less than 16) — (odd) — (less than 21)

☐ (greater than 6.4) | ☐ (either 19 or 21)

Name: _____

Menhaden Market sells canned anchovies and sardines. Seventeen cans of anchovies are packed in a box. Eleven cans of sardines are packed in a box. If Daria's Deli buys six boxes of anchovies and six boxes of sardines, how many more cans of anchovies will she have than cans of sardines?
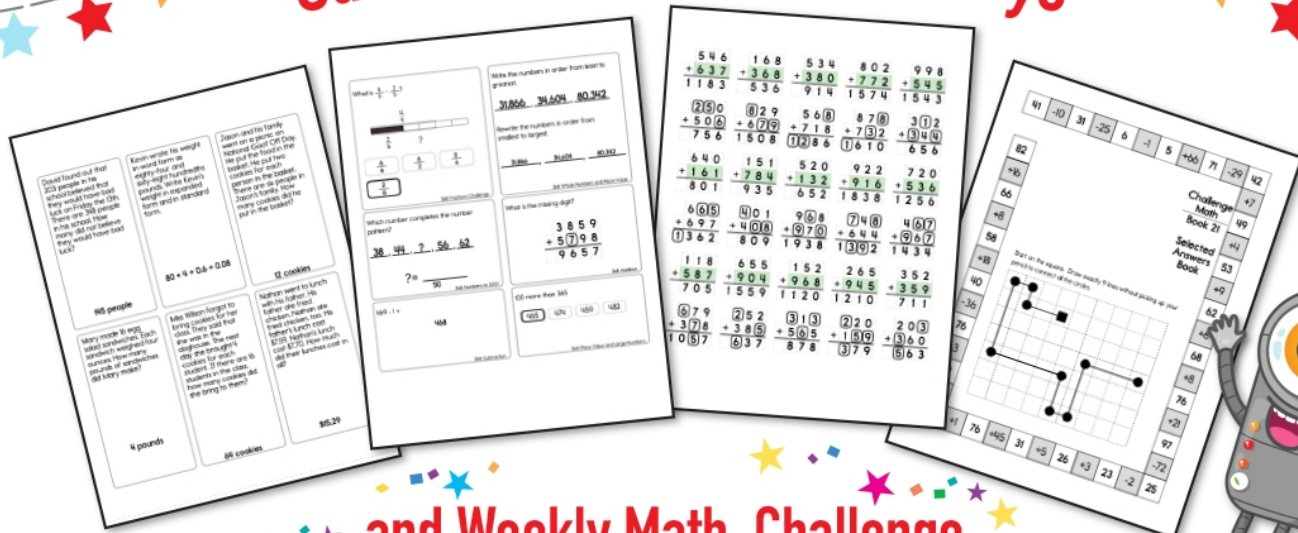
Nathan made butterscotch pudding with whipped cream and crushed peanuts for dessert. He used three-fifths of a cup of water, two-thirds of a cup of whipping cream, half of a cup of peanuts, and a third of a cup of milk for the dessert. How much liquid did he use in all?

David's mother made tomato soup from fresh tomatoes. For each $\frac{1}{2}$ cup of soup she had to cut up 1 medium tomato. If she made 6 cups of soup, how many tomatoes did she use?

Anna wants to give each guest at her birthday party three mini-cans of Play-Doh. The cans are sold in bags of ten for $3.86. If there are twenty-five guests at her party, how much will it cost to give three mini-cans of Play-Doh to each guest?

A roll of $\frac{1}{2}$-inch wide masking tape costs $0.59 per yard. A roll of $\frac{3}{4}$-inch wide masking tape costs $0.89 per yard. How much more does a 60 yard roll of $\frac{3}{4}$-inch wide masking tape cos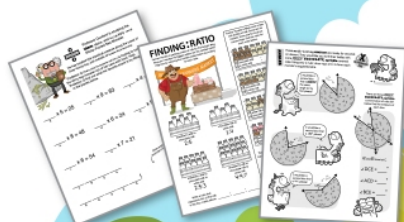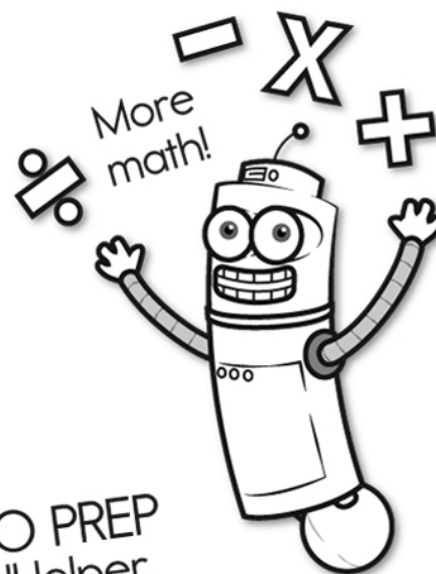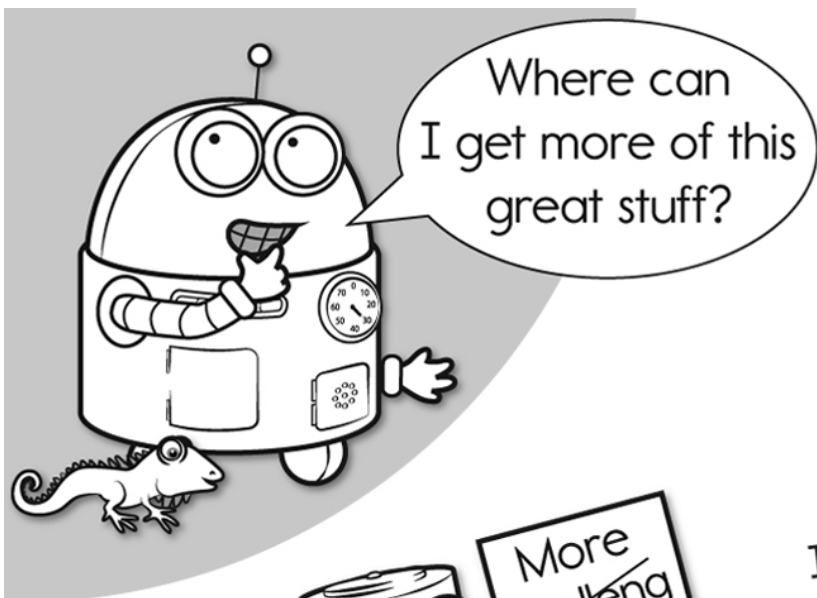t than a roll of $\frac{1}{2}$-inch wide tape?