

Doing Math.
**Saving
Lives.**

mathathon.org

LEVEL 1
FUNBOOK

St. Jude patient Gayatri, age 7,
acute lymphoblastic leukemia



**St. Jude Children's
Research Hospital**

ALSAC • Danny Thomas, Founder
Finding cures. Saving children.

ST. JUDE
MATH-A-THON

Curriculum by:

 **SCHOLASTIC**

Welcome to The St. Jude Math-A-Thon®!

St. Jude patient Sebastian, age 7,
medulloblastoma



The St. Jude Math-A-Thon is your chance to show what kids can do when they work together. Kids under the care of experts at St. Jude Children's Research Hospital® are battling childhood cancer and other life-threatening diseases, and you can help. St. Jude is leading the way the world understands, treats and defeats childhood cancer and other life-threatening diseases. Families never receive a bill from St. Jude for treatment, travel, housing or food—because all a family should worry about is helping their child live.

Now you can help the kids of St. Jude!

- 1 Collect sponsors using the online fundraising tools at **mathathon.org**.
- 2 Complete the five math worksheets in this workbook.
- 3 Send in your money to your school!

Thank you and good luck!



Meet Gayatri

age 7, India, acute lymphoblastic leukemia

Gayatri's dad is a doctor. When she got sick, he knew St. Jude Children's Research Hospital® was the best place for her to go. Gayatri traveled to the United States from her home in India. Her mom, dad and little sister all came, too. Gayatri is receiving medicine that is helping her get better. She loves going to school and learning new things.

More about Gayatri:

Favorite color: Red

Favorite school subject: Math

Favorite food: Pani puri (Indian)

Favorite hero: Pavan Kalyan (Indian)

Favorite song: "I Like to Move It" (Madagascar)

by Will I Am

Hobbies: Drawing, coloring and doing crafts

When I grow up, I want to be a: Doctor

I am thankful for: St. Jude because it saved my life

More about you:

Favorite color: _____

Favorite school subject: _____

Favorite food: _____

Favorite hero: _____

Favorite song: _____

Hobbies: _____

When I grow up, I want to be a: _____

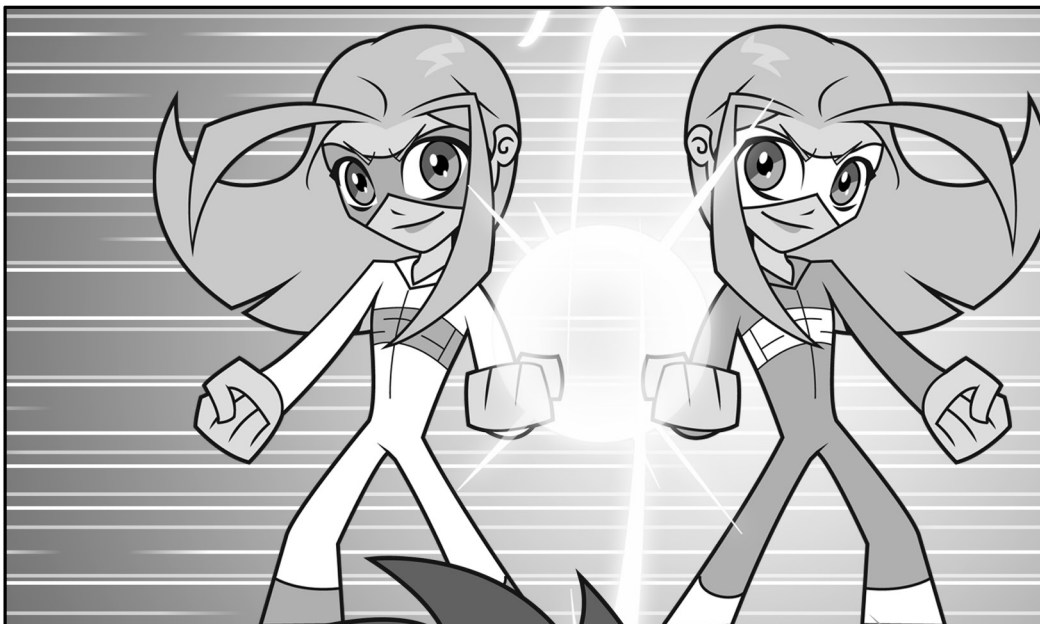
I am thankful for: _____

Meet **THE NUMERATORS**

ONCE THERE WERE FOUR REGULAR KIDS WHO STUDIED MATH IN SCHOOL, JUST LIKE YOU. MY NAME IS DR. JAX. I HELPED THEM TURN THEIR MATH SKILLS INTO AMAZING SUPER POWERS. NOW, THESE STUDENTS CALL THEMSELVES THE NUMERATORS. THEY USE THEIR POWERS TO PROTECT OTHER KIDS IN DANGER.



THAT'S WHY THE NUMERATORS USED THEIR MATH POWERS TO HELP ST. JUDE CHILDREN'S RESEARCH HOSPITAL®. THEY WERE HELPING TO RAISE MONEY TO FIND CURES FOR VERY SICK CHILDREN WITH DISEASES LIKE CANCER.



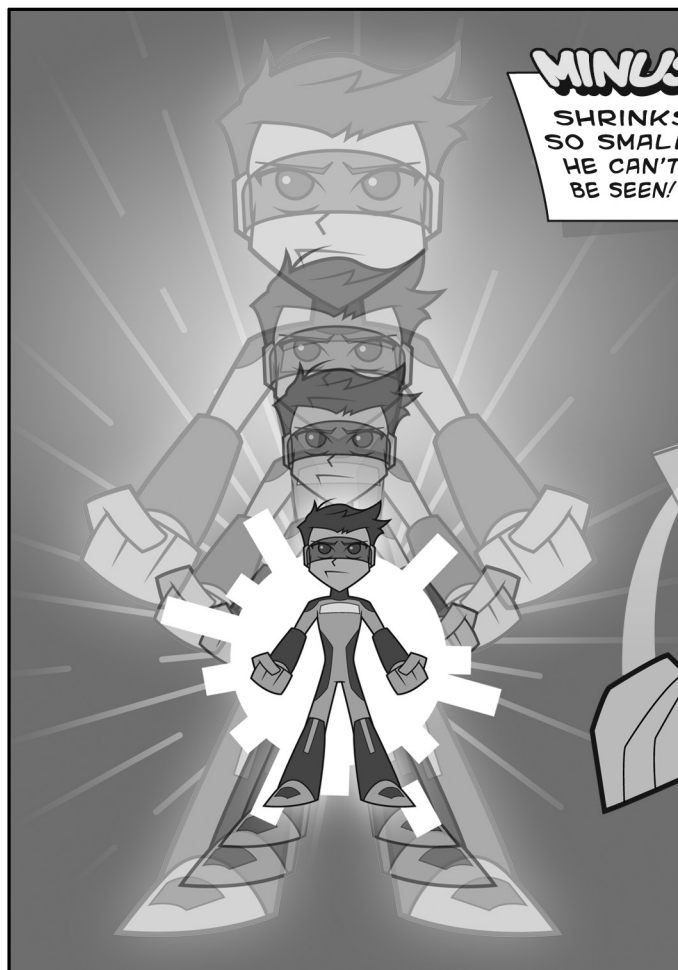
SYMMETRY

SPLITS IN TWO EQUAL PARTS FOR A DOUBLE ATTACK!

FRACTION

FIGHTS WITH A POWERFUL SLASH!





MINUS

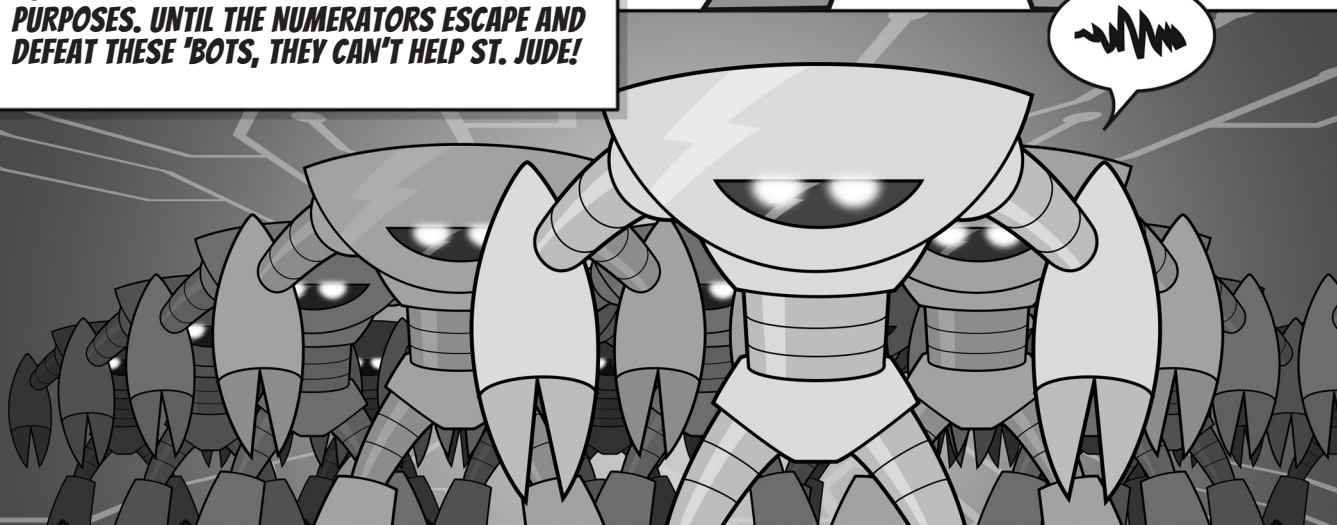
SHRINKS
SO SMALL,
HE CAN'T
BE SEEN!



OCTAGON

KEEPS
ENEMIES AWAY
WITH AN
EIGHT-SIDED
FORCE
FIELD!

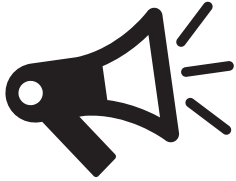
...BUT ROBOTS LAUNCHED A SURPRISE ATTACK ON OUR HEROES. THE ROBOTS WANTED TO STEAL THE NUMERATORS' MATH POWERS FOR THEIR OWN PURPOSES. UNTIL THE NUMERATORS ESCAPE AND DEFEAT THESE 'BOTS, THEY CAN'T HELP ST. JUDE!



BUT YOU CAN USE YOUR OWN MATH SKILLS TO HELP THE NUMERATORS AND THE KIDS OF ST. JUDE. JUST FILL OUT THIS ST. JUDE MATH-A-THON FUNBOOK. YOU CAN HELP OUR HEROES ESCAPE THE ROBOTS. YOU'LL ALSO HELP RAISE MONEY FOR ST. JUDE AT THE SAME TIME. SO GET YOUR PENCILS READY AND START YOUR MATH ADVENTURE TODAY!

Take the first step today!

It doesn't take much – just a few dollars and a little time.



Get the word out.

Go to **mathathon.org** and use the online tools to reach out to friends, family and neighbors and raise money to support your St. Jude Math-A-Thon® goals.



Do the math.

Complete the five worksheets in this Funbook by your school's deadline of _____.



Celebrate.

Tally the results of your efforts, and celebrate!

Make a difference with The St. Jude MATH-A-THON



Families never receive a bill from St. Jude for treatment, travel, housing or food – because all a family should worry about is helping their child live.



The St. Jude Math-A-Thon is a math-enrichment fundraiser with a real-world purpose!



St. Jude freely shares its discoveries so that one child saved at St. Jude means doctors and scientists can use that knowledge to save thousands more children.

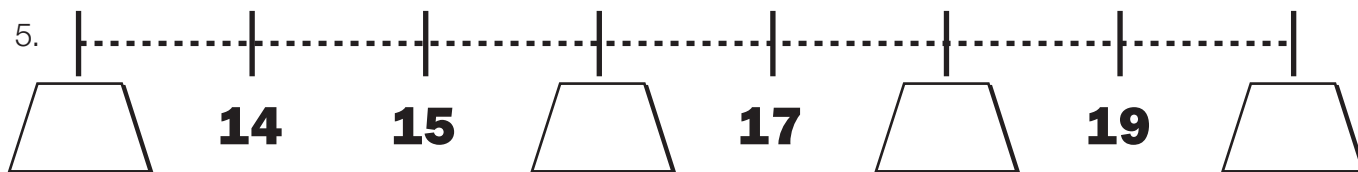
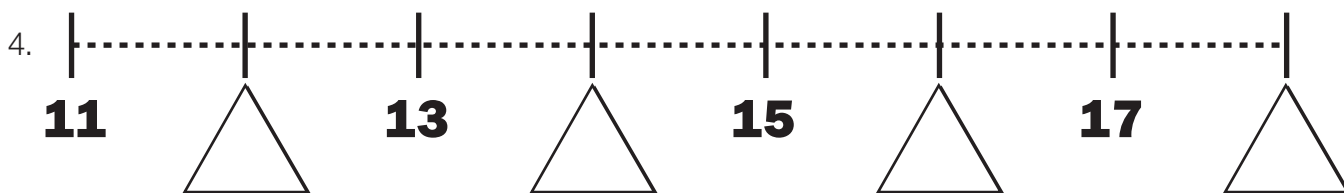
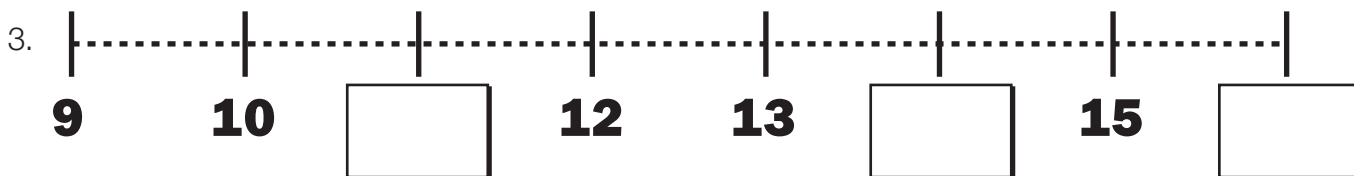
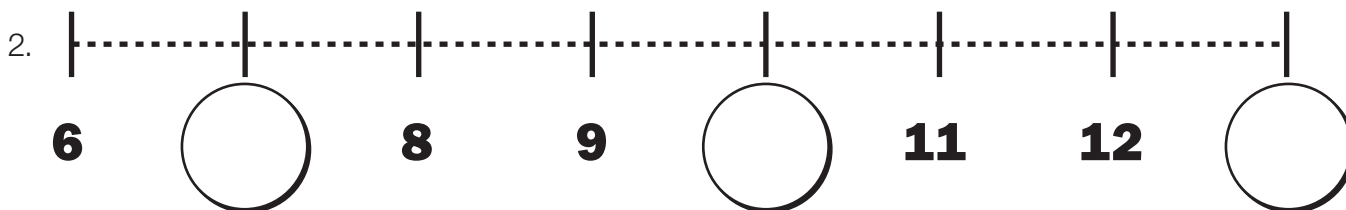
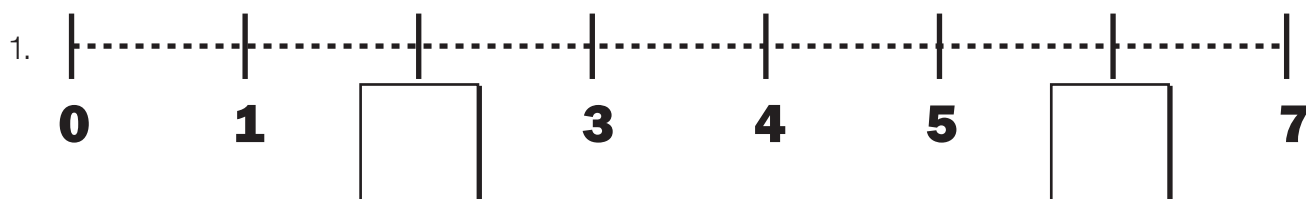


It helps students practice math skills while providing the opportunity to help kids just like them!



Line Up

Robots took a bite out of these number lines! Write the missing numbers in the shapes below.



Let Me Count the Ways

Trace the happy faces at the bottom of the page on a separate piece of paper. Cut them out and color them yellow. Use them as counters to help you solve the problems. Here's an example:

Use 4 yellow counters to help you find 3 ways to make 4.

$$\text{😊}(1) + \text{😊😊😊}(3) = 4 \quad 1 + 3 = 4$$

$$\text{😊😊}(2) + \text{😊😊}(2) = 4 \quad 2 + 2 = 4$$

$$(0) + \text{😊😊😊😊}(4) = 4 \quad 0 + 4 = 4$$

1. Use 6 yellow counters. Find 4 different ways to make them add up to 6. Write the number pairs in the blanks.

$$\underline{\quad} + \underline{\quad} = 6$$

$$\underline{\quad} + \underline{\quad} = 6$$

$$\underline{\quad} + \underline{\quad} = 6$$

$$\underline{\quad} + \underline{\quad} = 6$$

2. Now use 10 yellow counters. Find 6 ways to make them add up to 10.

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

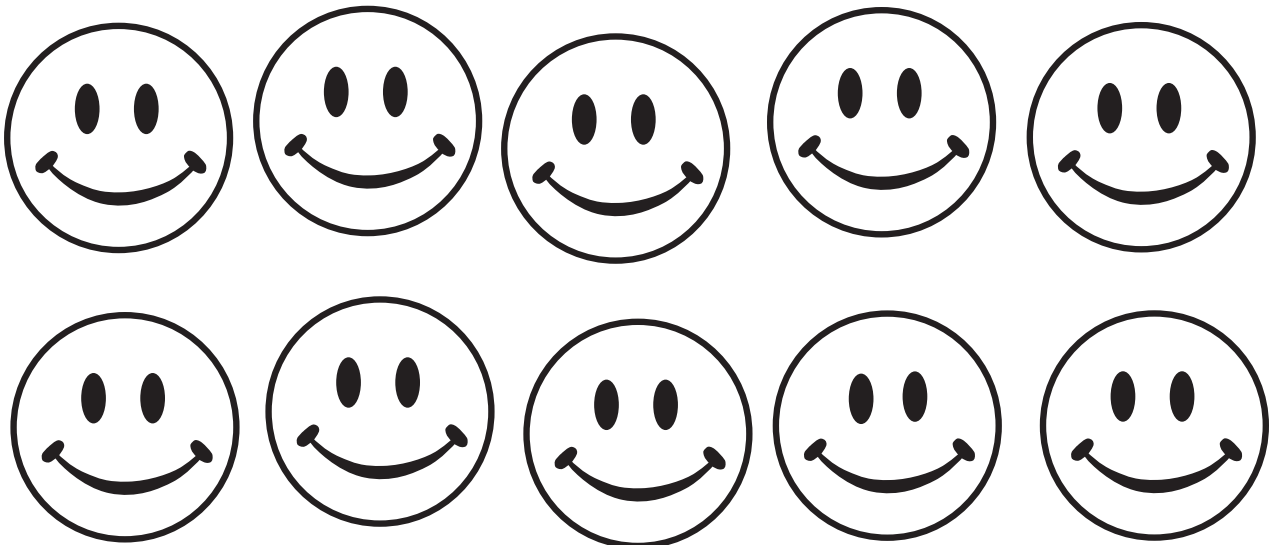
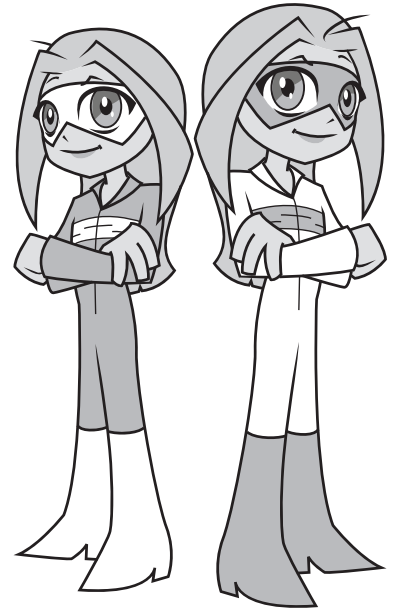
$$\underline{\quad} + \underline{\quad} = 10$$

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

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

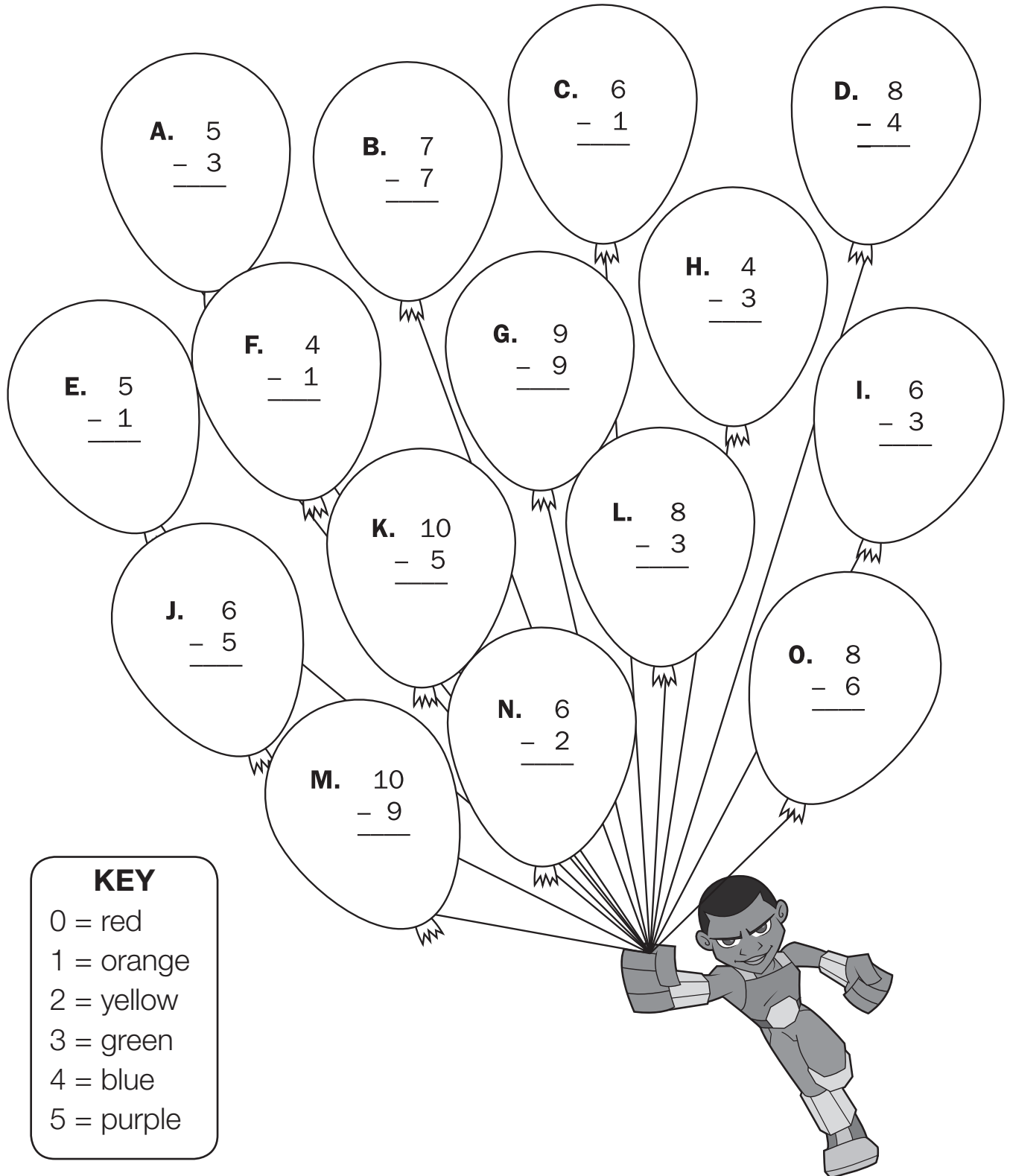
$$\underline{\quad} + \underline{\quad} = 10$$

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



Balloon Burst

Solve the problems inside each balloon. Then use the key to color the balloons.



KEY

- 0 = red
- 1 = orange
- 2 = yellow
- 3 = green
- 4 = blue
- 5 = purple

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

B.
$$\begin{array}{r} 7 \\ - 7 \\ \hline \end{array}$$

C.
$$\begin{array}{r} 6 \\ - 1 \\ \hline \end{array}$$

D.
$$\begin{array}{r} 8 \\ - 4 \\ \hline \end{array}$$

E.
$$\begin{array}{r} 5 \\ - 1 \\ \hline \end{array}$$

F.
$$\begin{array}{r} 4 \\ - 1 \\ \hline \end{array}$$

G.
$$\begin{array}{r} 9 \\ - 9 \\ \hline \end{array}$$

H.
$$\begin{array}{r} 4 \\ - 3 \\ \hline \end{array}$$

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

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

K.
$$\begin{array}{r} 10 \\ - 5 \\ \hline \end{array}$$

L.
$$\begin{array}{r} 8 \\ - 3 \\ \hline \end{array}$$

M.
$$\begin{array}{r} 10 \\ - 9 \\ \hline \end{array}$$

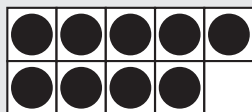
N.
$$\begin{array}{r} 6 \\ - 2 \\ \hline \end{array}$$

O.
$$\begin{array}{r} 8 \\ - 6 \\ \hline \end{array}$$

Math Match

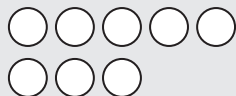
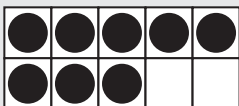
Solve the problems on the left. Then solve the problems on the right. Draw a line to match the answers on the left to the answers on the right. The first one is done for you.

1. $9 + 2 = \underline{11}$



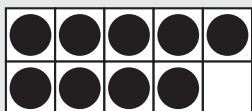
$10 + 5 = \underline{\hspace{2cm}}$

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



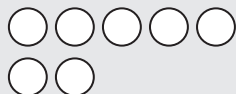
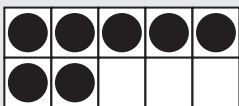
$10 + 1 = \underline{11}$

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



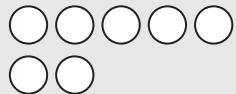
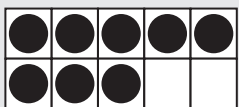
$10 + 3 = \underline{\hspace{2cm}}$

4. $7 + 7 = \underline{\hspace{2cm}}$



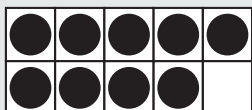
$10 + 6 = \underline{\hspace{2cm}}$

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



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

6. $9 + 4 = \underline{\hspace{2cm}}$



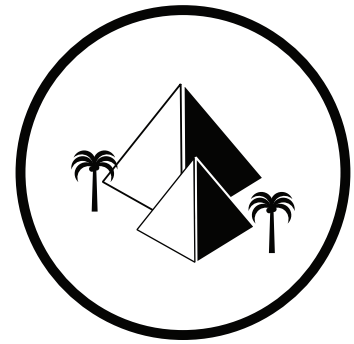
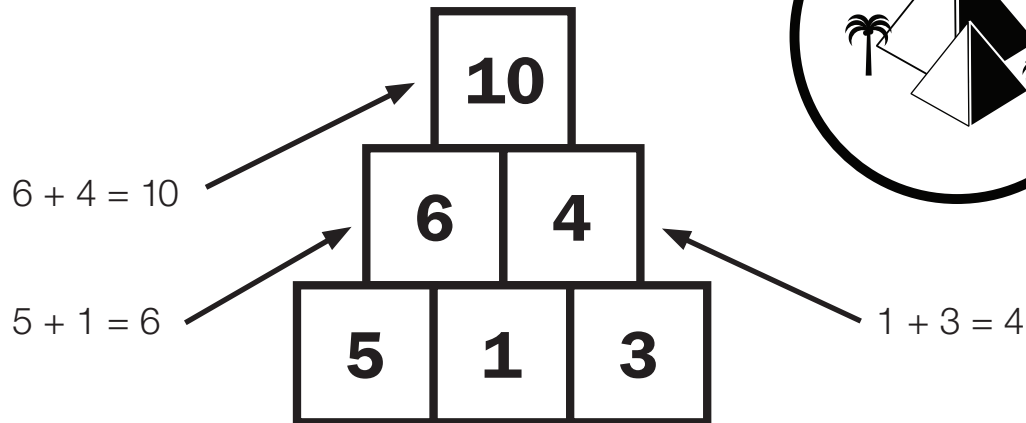
$10 + 4 = \underline{\hspace{2cm}}$



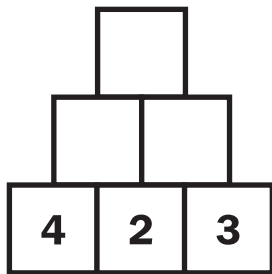
Play “The Pyramid”

The ancient Egyptian pyramids were built more than 4,000 years ago. Men moved the stones and built the pyramids themselves without modern machines!

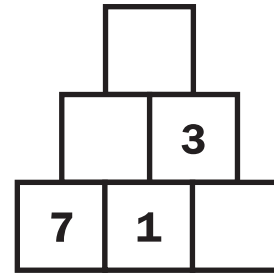
These are addition pyramids. Each number is the sum of the two numbers below it. Fill in the missing numbers. An example is done for you.



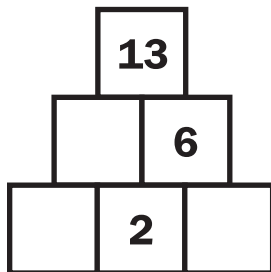
1.



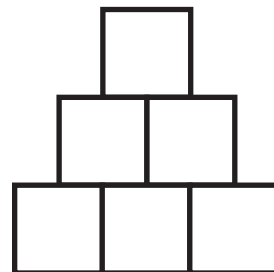
2.



3.



4.



Make your own pyramid.



LEVEL 1

FUNBOOK

Answers:

Page 6:

Line Up

1. 2, 6
2. 7, 10, 13
3. 11, 14, 16
4. 12, 14, 16, 18
5. 13, 16, 18, 20

Page 7:

Let Me Count the Ways

1. $6 + 0 = 6$; $5 + 1 = 6$; $4 + 2 = 6$; $3 + 3 = 6$
2. $10 + 0 = 10$; $9 + 1 = 10$; $8 + 2 = 10$; $7 + 3 = 10$; $6 + 4 = 10$; $5 + 5 = 10$

Page 8:

Balloon Burst

- A. 2; yellow
- B. 0; red
- C. 5; purple
- D. 4; blue
- E. 4; blue
- F. 3; green
- G. 0; red
- H. 1; orange
- I. 3; green
- J. 1; orange
- K. 5; purple
- L. 5; purple
- M. 1; orange
- N. 4; blue
- O. 2; yellow

Page 9:

Math Match

1. $9 + 2 = 11 \rightarrow 10 + 1 = 11$
2. $8 + 8 = 16 \rightarrow 10 + 6 = 16$
3. $9 + 3 = 12 \rightarrow 10 + 2 = 12$
4. $7 + 7 = 14 \rightarrow 10 + 4 = 14$
5. $8 + 7 = 15 \rightarrow 10 + 5 = 15$
6. $9 + 4 = 13 \rightarrow 10 + 3 = 13$

Page 10:

Play the Pyramid

Numbers are from top to bottom, left to right.

1. 11; 6; 5
2. 11; 8; 2
3. 7; 5; 4

4. Answers will vary. Please confirm that each number in the top two rows is equal to the sum of the two numbers below it.

Check out the St. Jude Math-A-Thon® Fundraising Hub!

mathathon.org

Take your fundraising efforts to the next level! Packed with tools to help you manage your fundraising efforts, raise more money and save time, **mathathon.org** includes tools to help you:

- ☐ Create your web page and set your goal
- ☐ Accept online donations
- ☐ Track your fundraising progress
- ☐ Customize emails to request donations and thank sponsors
- ☐ Spread the word about your event through social networks

Remember, because of you, the St. Jude Math-A-Thon can continue to raise money to help St. Jude find cures and save children.



ST. JUDE
MATH-A-THON

mathathon.org | mathathon@stjude.org | #stjudemathathon | 1-800-386-2665