

LEVEL 1

FUNBOOK

There's **Power** In Numbers

stjude.org/math

St. Jude patient
Riku



St. Jude
Math-A-Thon

Welcome to The St. Jude Math-A-Thon®!

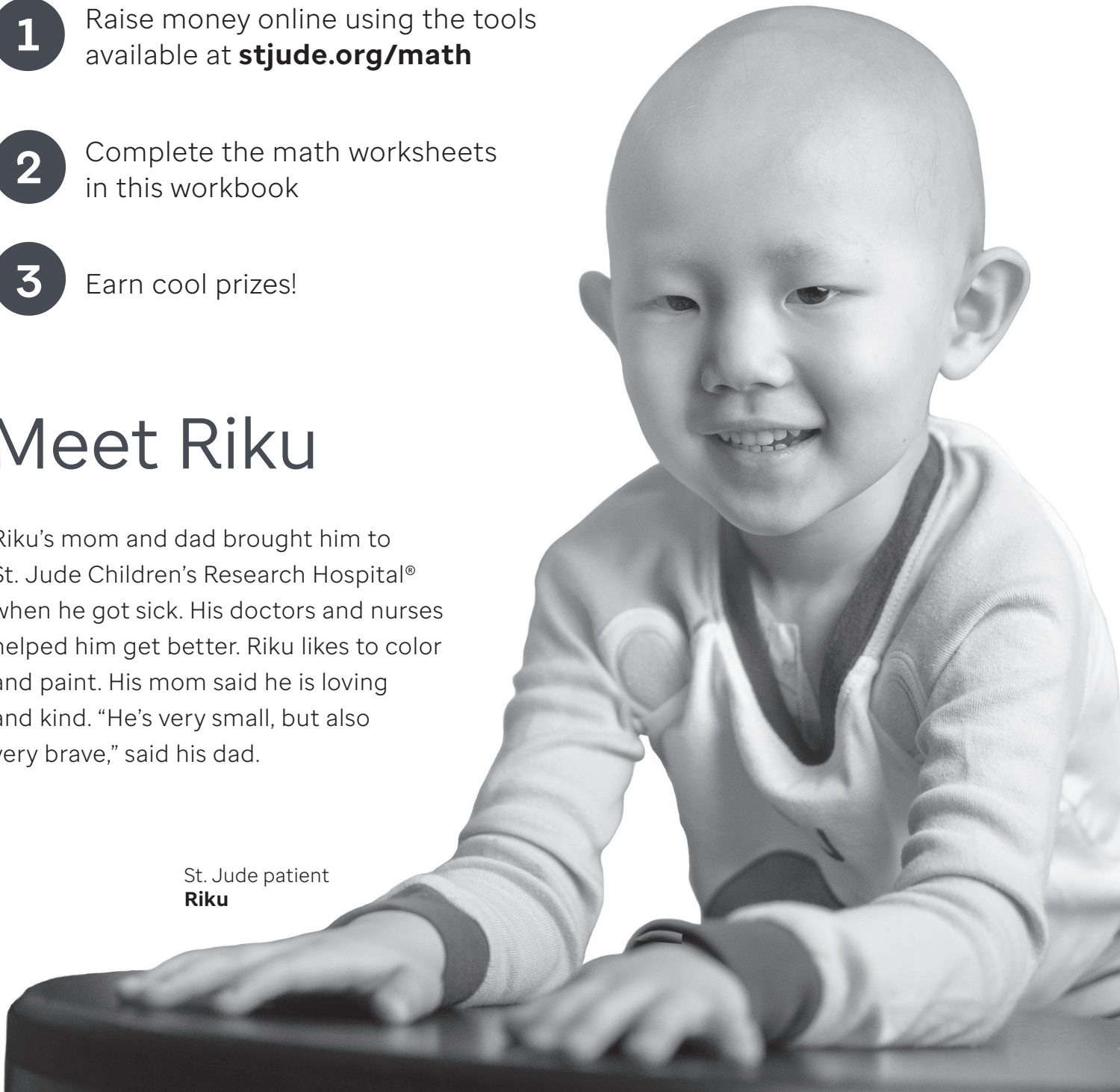
Thank you for supporting St. Jude Children's Research Hospital®. Because of fundraising programs like St. Jude Math-A-Thon and supporters like you, St. Jude is leading the way the world understands, treats and defeats childhood cancer and other life-threatening diseases. You're an important part of making this fundraiser a success, and participation is easy:

- 1 Raise money online using the tools available at **stjude.org/math**
- 2 Complete the math worksheets in this workbook
- 3 Earn cool prizes!

Meet Riku

Riku's mom and dad brought him to St. Jude Children's Research Hospital® when he got sick. His doctors and nurses helped him get better. Riku likes to color and paint. His mom said he is loving and kind. "He's very small, but also very brave," said his dad.

St. Jude patient
Riku



How Math Helps St. Jude

Math is used every day on the St. Jude campus. From careful measurements for patient medicine to the complex mathematics needed in our state-of-the-art research facilities, numbers play an important role in helping our patients. As you complete each worksheet, know that you're sharpening important skills that are used every day to help the kids of St. Jude.



- St. Jude grows its own fresh fruits and vegetables so patients can eat delicious and nutritious food. Math is used every day in making sure each plant gets the right amount of water.
- Doctors use very careful math to make sure each child gets the right amount of medicine each day.
- St. Jude is not a general children's hospital—we focus on providing high quality care to children with cancer and other life-threatening diseases. The people who work at St. Jude use math to keep careful track of how many patients we have on campus and how many rooms we have available.

Ready to Sign Up?

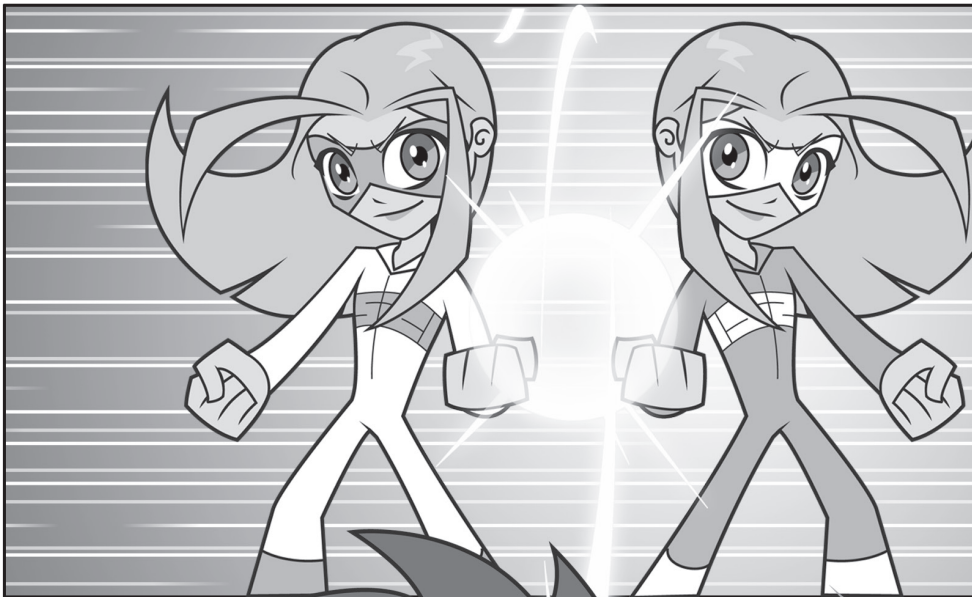
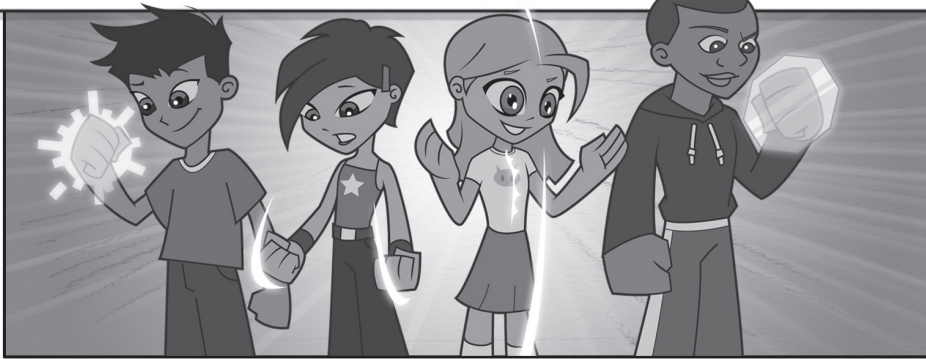
St. Jude relies on the power in numbers. Math plays a vital role in nearly every aspect of our campus, but the strength in numbers is never more powerful than when it helps our patients. That's where you come in—turn to the back page of your funbook to start the sign up process. You can even have your parents scan the QR code and sign up online.

St. Jude patient
Mia



MEET **THE NUMERATORS**

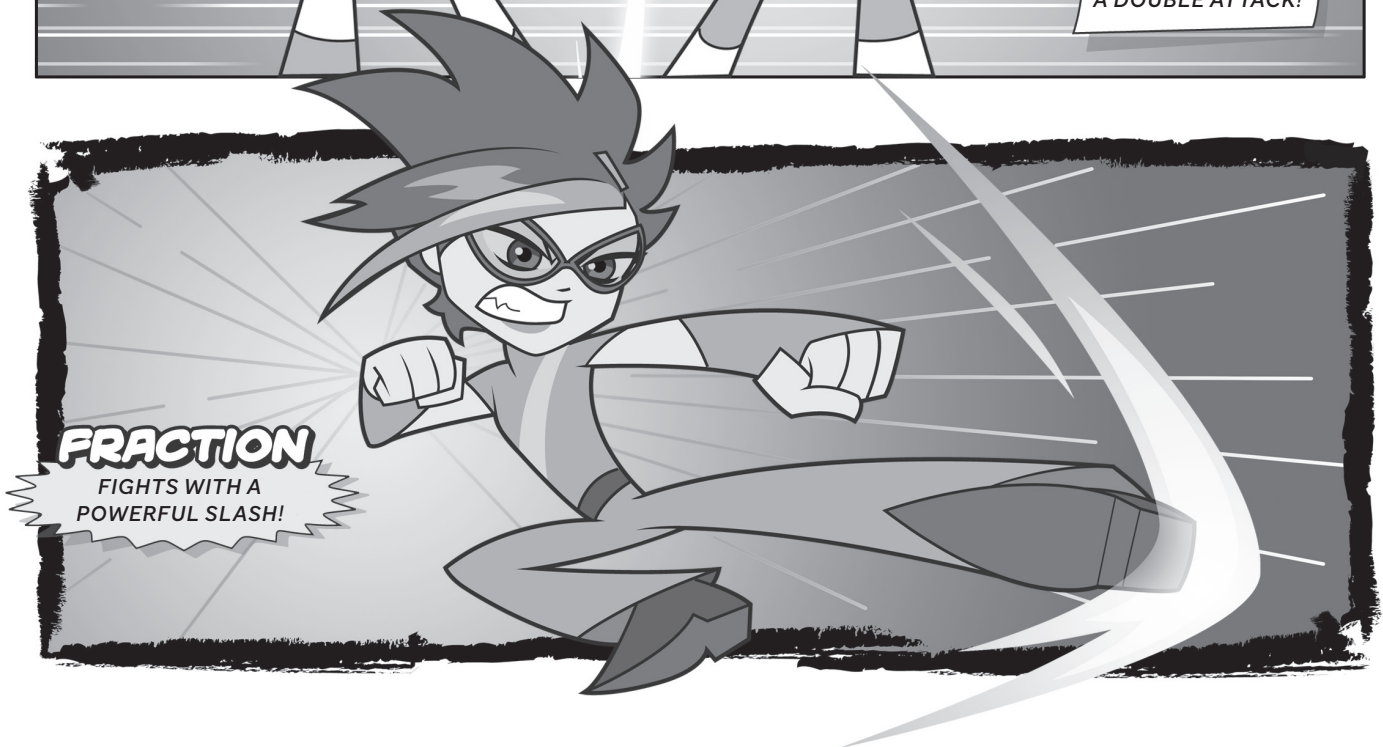
My name is Dr. Jax. Once there were four regular kids who studied math in school, just like you. I helped them turn their math skills into amazing super powers. Now, these students call themselves The Numerators. They use their powers to protect other kids in danger.



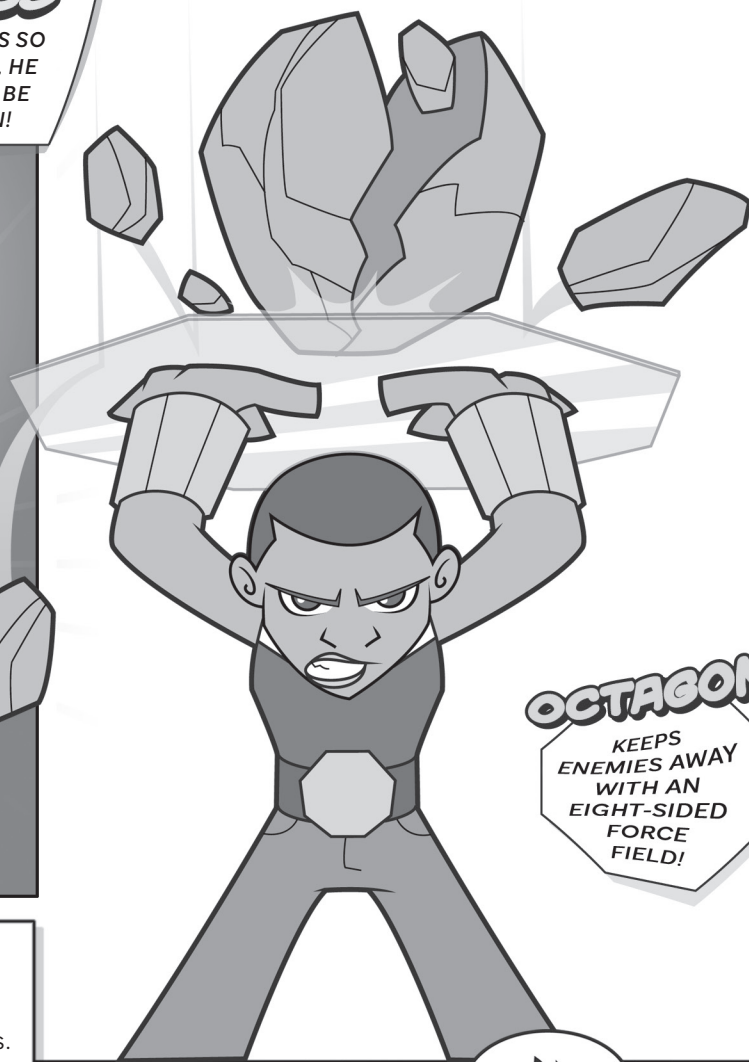
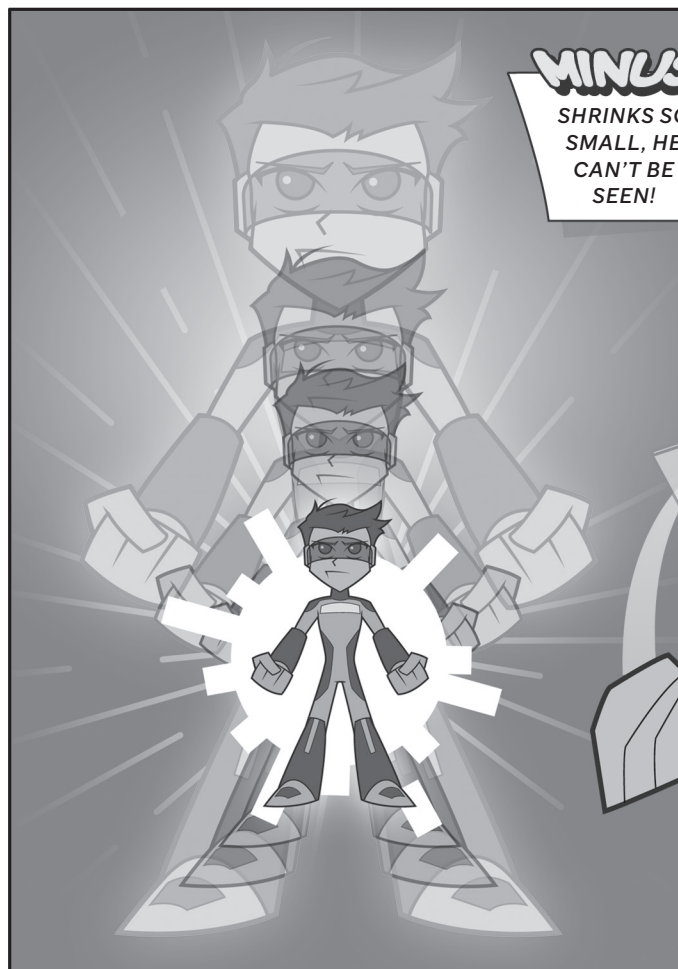
That's why The Numerators used their math powers to help St. Jude Children's Research Hospital®. They were helping to raise money to find cures for very sick children with diseases like cancer.

SYMMETRY

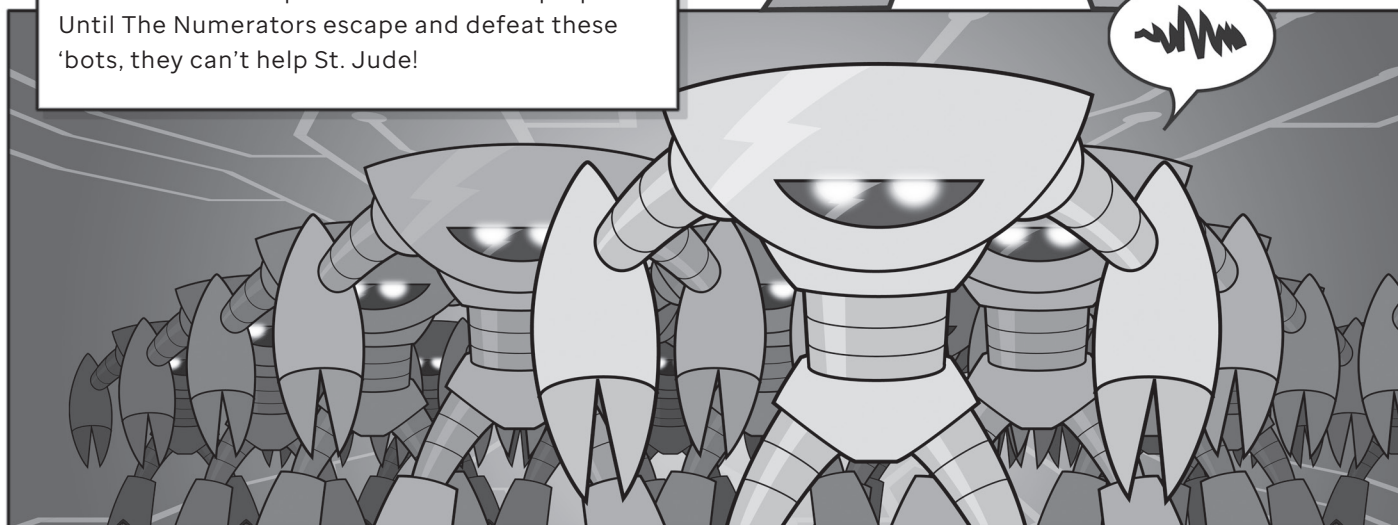
SPLITS INTO
EQUAL PARTS FOR
A DOUBLE ATTACK!



FRACTION
FIGHTS WITH A
POWERFUL SLASH!



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!



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 to help our heroes escape the robots. You'll also help raise money for St. Jude. So get your pencils ready and start your math adventure today!

Line Up

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



1. A horizontal number line with tick marks at 0, 1, 3, 4, 5, and 7. There are two empty square boxes for missing numbers: one between 1 and 3, and another between 5 and 7.
2. A horizontal number line with tick marks at 6, 8, 9, 11, and 12. There are three empty circle shapes for missing numbers: one between 6 and 8, one between 9 and 11, and one after 12.
3. A horizontal number line with tick marks at 9, 10, 12, 13, 15, and an empty square box. There are three empty square boxes for missing numbers: one between 10 and 12, one between 13 and 15, and one after 15.
4. A horizontal number line with tick marks at 11, 13, 15, and 17. There are four empty triangle shapes for missing numbers: one between 11 and 13, one between 13 and 15, one between 15 and 17, and one after 17.
5. A horizontal number line with tick marks at 14, 15, 17, and 19. There are four empty trapezoid shapes for missing numbers: one before 14, one between 15 and 17, one between 17 and 19, and one after 19.

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.

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

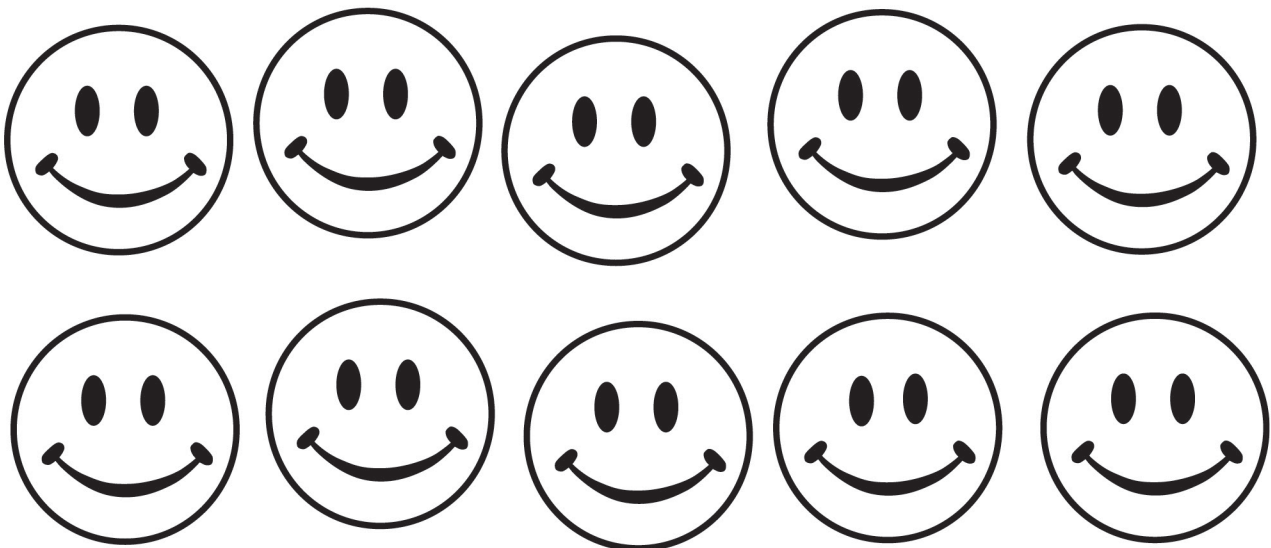
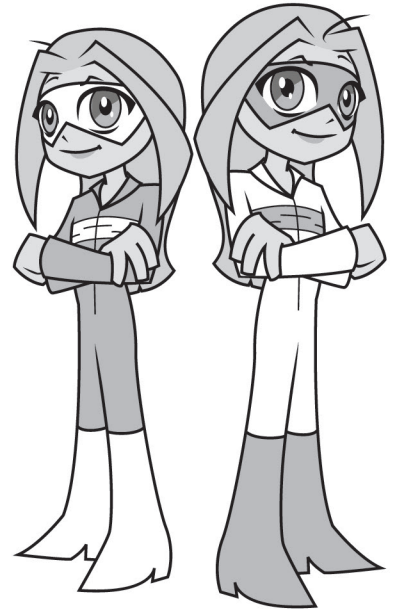
$$\underline{\quad} + \underline{\quad} = 10$$

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

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

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

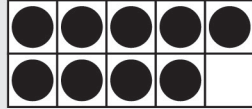
$$\underline{\quad} + \underline{\quad} = 10$$



Math Match

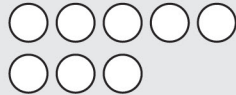
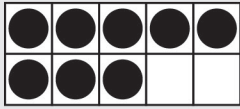
Solve the problems on the left. Then solve the problems on the right.
Draw a line to match the answers on the left to the answers on the right.
The first one is done for you.

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



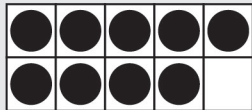
$10 + 5 = \underline{\hspace{2cm}}$

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



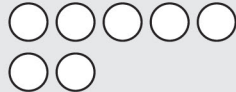
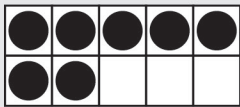
$10 + 1 = \underline{11}$

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



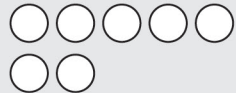
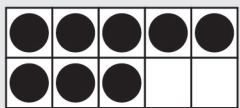
$10 + 3 = \underline{\hspace{2cm}}$

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



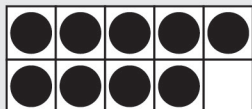
$10 + 6 = \underline{\hspace{2cm}}$

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



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

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



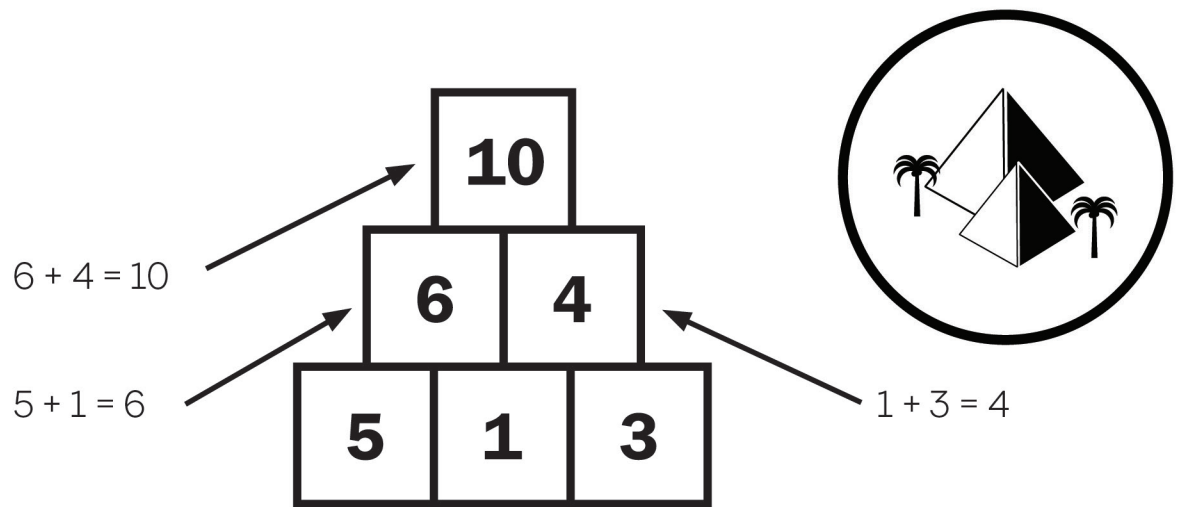
$10 + 4 = \underline{\hspace{2cm}}$



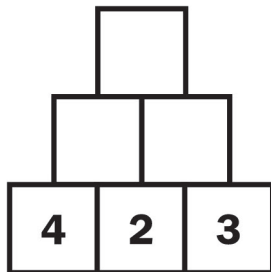
Play “The Pyramid”

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

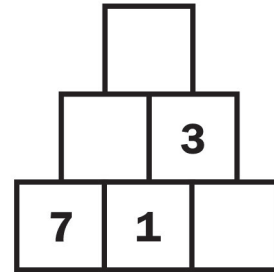
These are addition pyramids. Each number is the sum of the two numbers below it. Fill in the missing numbers. An example is done for you.



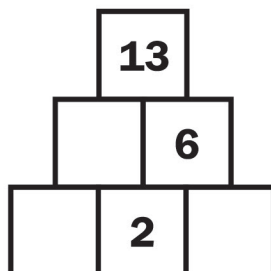
1.



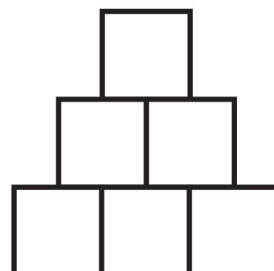
2.



3.



4.



Make your own pyramid.

Problem Solving

Circle the addition sentence that fits the picture.

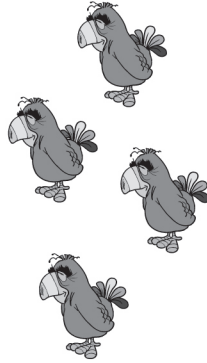
1.



$1 + 4 = 5$

$4 + 2 = 6$

$1 + 5 = 6$



2.



$3 + 1 = 4$



$2 + 2 = 4$



$3 + 2 = 5$



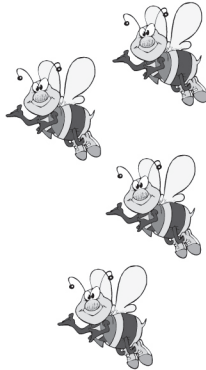
3.



$3 + 2 = 5$

$3 + 3 = 6$

$2 + 4 = 6$



4.



$4 + 0 = 4$



$4 + 1 = 5$



$2 + 2 = 4$

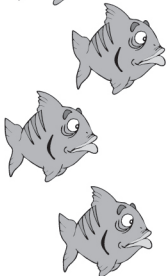
5.



$4 + 2 = 6$

$4 + 1 = 5$

$0 + 5 = 5$



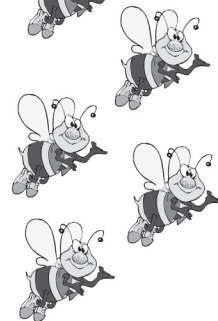
6.



$6 + 0 = 6$

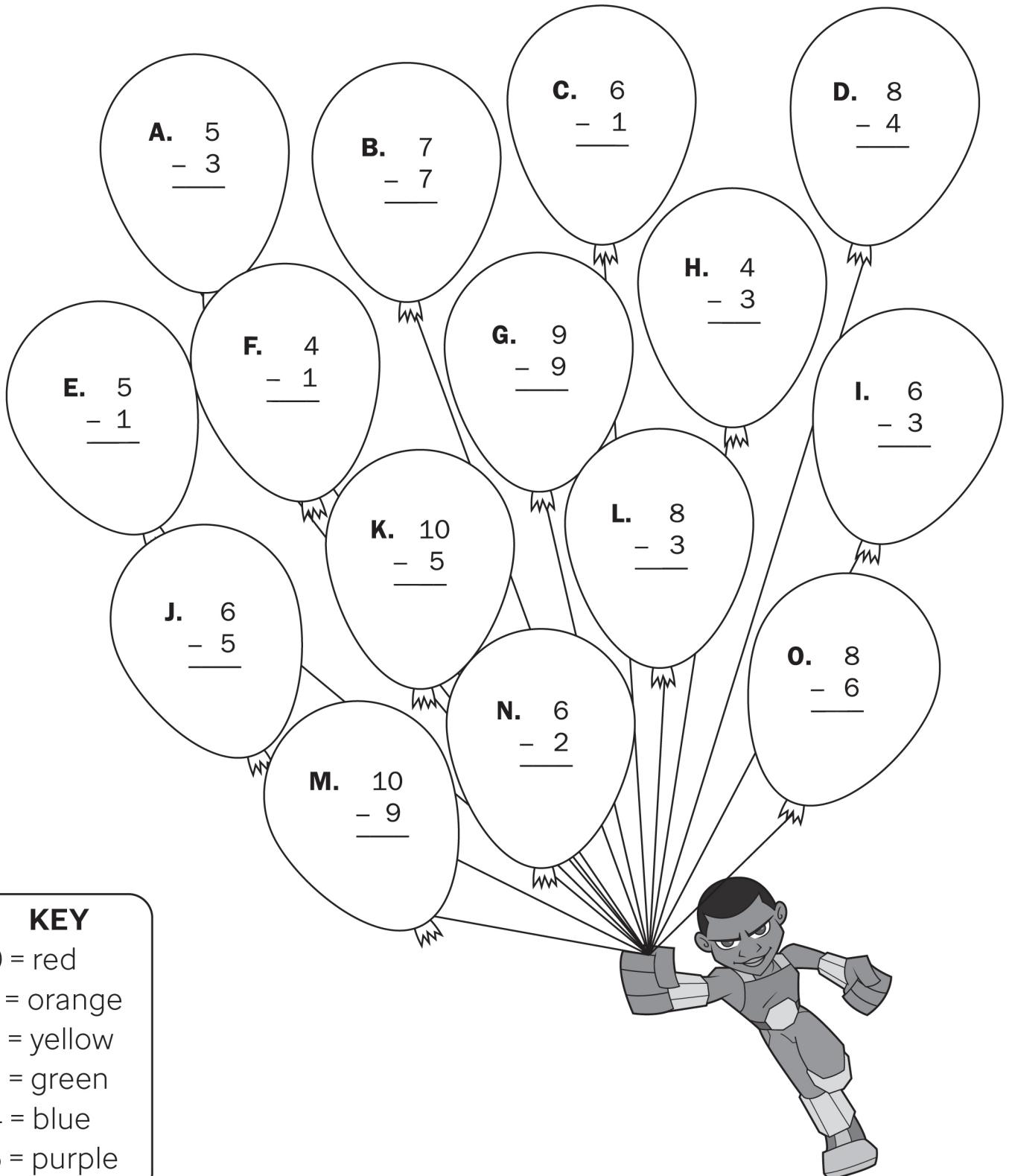
$5 + 1 = 6$

$5 + 0 = 5$



Balloon Burst

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



LEVEL 1

FUNBOOK

Answer Key

Page 5

Line Up

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

Page 6

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 7

Math Match

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 8

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.

Page 9

Problem Solving

1. $1 + 4 = 5$
2. $3 + 1 = 4$
3. $2 + 4 = 6$
4. $4 + 0 = 4$
5. $4 + 1 = 5$
6. $5 + 1 = 6$



Page 10

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



Check out stjude.org/math to start fundraising online today! Packed with tools to help you manage your fundraising efforts, raise more money and save time, stjude.org/math includes tools to help you:

- + Find your school
- + Create your own fundraising webpage and set your goal
- + Accept online donations
- + Integrate with Facebook Fundraising



Scan to find your school and sign up!



St. Jude Children's
Research Hospital

St. Jude
Math-A-Thon

mathathon.org | mathathon@stjude.org | [#stjudemathathon](https://twitter.com/stjudemathathon) | 1-800-386-2665

©2021 ALSAC/St. Jude Children's Research Hospital, 501 St. Jude Place, Memphis, TN 38105, 1-800-FUNBOOK (386-2665), mathathon.org. St. Jude Children's Research Hospital is a registered trademark of St. Jude Children's Research Hospital, Inc. Math-A-Thon is a registered trademark of ALSAC, Inc. The Numerators are a registered trademark of ALSAC/St. Jude ©2020 ALSAC/St. Jude Children's Research Hospital. SCHOLASTIC and associated logos are trademarks and/or registered trademarks of Scholastic Inc. All rights reserved. 0-545-73310-3 All photos: ©2020 ALSAC/St. Jude Children's Research Hospital. (EXPM-3896) SKU MAT000L1