There’s Power In Numbers

stjude.org/math

St. Jude patient
Keeton

St. Jude Children’s Research Hospital
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 Keeton

Interested in getting Keeton’s attention? Talk to him about the movie “Cars”. He’s going to race like Lightning McQueen when he grows up. But right now, Keeton is undergoing two-and-a-half years of chemotherapy at St. Jude Children’s Research Hospital® for the treatment of acute lymphoblastic leukemia.

Even in the midst of treatment, Keeton is a constant blur of motion. “Keeton, he loves everybody and I love them, too. I’m grateful for everybody at St. Jude.” his mom said.
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
Maelin-Kate
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.
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!
Mysterious Missing Numbers

What are the missing numbers? Think about number patterns to help you.

1. 
   | 33 | 34 |
   | 44 | 45 |
   | 53 |

2. 
   | 15 | 18 |
   | 26 |

3. 
   | 30 |
   | 38 |
   | 47 |

4. 
   | 77 |
   | 88 |

5. 
   | 25 |
   | 32 |
   | 54 |

6. 
   | 100 |
Arrows Point the Way

Draw arrows to show the numbers from least to greatest. Circle the greatest number in each group. The first one is done for you.

1. N
   235
   325
   P
2. S
   892
   298
   I
3. M
   426
   642
   N
4. Z
   765
   567
   R
5. H
   412
   421
   S
6. O
   127
   125
   T
7. E
   616
   629
   U
8. G
   780
   817
   H
9. W
   514
   511
   X

10. Write your circled numbers from least to greatest beneath the blanks below. The first one is done for you.

11. Write the letters shown near your circled numbers to solve the riddle, "What is a ten without its number 1 friend?"

   _____ _____ _____ _____ _____ _____ _____ O
   151
Names for Numbers

Write the number name for each group of tens and ones. Then find the number on the map and write the name of the country below. Learn how you might say hello there!

1. 3 tens, 7 ones
   Number: ________
   Country: ________
   Nih hào! (nee HAOW)

2. 4 tens, 2 ones
   Number: ________
   Country: ________
   Ciao! (CHOW)

3. 5 tens, 3 ones
   Number: ________
   Country: ________
   Olá! (oh-LAH)

4. 5 tens, 6 ones
   Number: ________
   Country: ________
   Shalom! (shah-LOHM)

5. 9 tens, 1 one
   Number: ________
   Country: ________
   Kumusta! (ku-MUS-ta)

6. 3 tens, 5 ones
   Number: ________
   Country: ________
   Hei! (HAY)

7. 8 tens, 1 one
   Number: ________
   Country: ________
   Bonjour! (bohn-ZHOOR)

8. 9 tens, 3 ones
   Number: ________
   Country: ________
   Privet! (PREE-vyet)

9. 1 ten, 9 ones
   Number: ________
   Country: ________
   Konnichiwa!
   (koh-NEE-chee-wah)

10. 6 tens, 5 ones
    Number: ________
    Country: ________
    G’day! (guh DAY)

11. 6 tens, 4 ones
    Number: ________
    Country: ________
    Salut! (sah-LOOT)

12. 2 tens, 8 ones
    Number: ________
    Country: ________
    Guten Tag!
    (GOO-ten TAHG)
Toy Choices

Go shopping! First, count the money. Then, pick two items you can buy without spending more than you have. (You can choose the same toy more than once.) The first one is done for you.

1. Bear \( \text{21¢} \) + \( \text{14¢} \) = \( \text{35¢} \)

2. ___________ + ___________ = Total ___________

3. ___________ + ___________ = Total ___________

4. ___________ + ___________ = Total ___________

5. ___________ + ___________ = Total ___________

6. ___________ + ___________ = Total ___________
Counting Maze
Count the number of each shape. Cross them out as you count.
Write the numbers in the correct order.

1. How many? ▲
   ▲ ▲ ▲ ▲

2. How many? ★
   ★ ★ ★ ★ ★

3. How many? ●
   ● ● ● ● ●

4. How many? □
   □ □ □ □ □

5. Write the numbers in order.
   ___________
Cross Number Puzzle

Use the clues to complete the puzzle. Instead of using letters to form words, use digits to form numbers.

ACROSS
A. 300 + 20 + 6
B. 2 hundreds, 5 ones
D. 2 hundreds, 7 tens, 8 ones
F. 900 + 30 + 7
G. 7 hundreds, 2 tens, 9 ones
I. Five hundred sixty-six
K. Eight hundred twelve
L. 4 hundreds

DOWN
A. 3 hundreds, 9 tens, 2 ones
C. 500 + 40 + 7
E. Eight hundred nineteen
F. 9 hundreds, 7 tens, 5 ones
H. Two hundred thirty-one
J. 6 hundreds, 9 tens
Answer Key

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Mysterious Missing Numbers  
1. 35, 43, 54, 55  
2. 16, 17, 27, 37  
3. 27, 28, 29, 40, 48  
4. 66, 67, 68, 78, 86  
5. 22, 24, 25, 42, 45, 52, 53  
6. 68, 69, 70, 79, 87, 89, 97, 98

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Arrows Point the Way  
1. 235, 325, 352, 532  
2. 109, 298, 892, 901  
3. 426, 642, 671, 711  
4. 567, 657, 756, 765  
5. 412, 421, 489, 491  
6. 125, 127, 132, 151  
7. 616, 629, 698, 701  
8. 779, 780, 817, 821  
9. 511, 514, 520, 541  
10. 151, 491, 532, 541, 701, 711, 765, 821, 901  
11. A TOTAL ZERO

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Names for Numbers  
1. 57; China  
2. 42; Italy  
3. 53; Brazil  
4. 56; Israel  
5. 91; Philippines  
6. 35; Norway  
7. 81; France  
8. 93; Russia  
9. 19; Japan  
10. 85; Australia  
11. 64; Romania  
12. 28; Germany

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Toy Choices  
1. 40¢; one possibility: bear 21¢, truck 14¢, total 35¢  
2. 50¢; one possibility: bricks 28¢, doll 19¢, total 47¢  
3. 60¢; one possibility: book 25¢, drum 32¢, total 57¢  
4. 55¢; one possibility: crayons 40¢, truck 14¢, total 54¢  
5. 45¢; one possibility: book 25¢, doll 19¢, total 44¢  
6. 75¢; one possibility: crayons 40¢, drum 32¢, total 72¢

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Counting Maze  
1. 20  
2. 17  
3. 18  
4. 19  
5. 17, 18, 19, 20

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Cross Number Puzzle  
\[
\begin{array}{ccc}
3 & 2 & 6 \\
9 & \boxed{1} & 17 \\
\boxed{7} & 2 & \boxed{5} \\
3 & \boxed{8} & 9 \\
8 & 1 & 2 \\
& 4 & 0 \\
\end{array}
\]

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!