Doing Math.

Saving Lives.

mathathon.org



FUNBOOK

St. Jude patient Patience, age 10, Hodgkin lymphoma





ST. JUDEMATH-A-THON



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!

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

Thank you and good luck!



ST. JUDEMATH-A-THON



Meet Patience

age 10, Tennessee, Hodgkin lymphoma

Patience's family was worried when they noticed her lymph nodes were swollen. When tests revealed Patience had cancer, her family turned to St. Jude Children's Research Hospital. Patience received medicine, including chemotherapy, as part of her treatment. She is now cancer-free. Patience likes to read and participate in spelling bees.

More about Patience:

Favorite color: Blue

Favorite school subjects: Reading and Language Arts

Favorite food: Hot wings **Favorite hero**: My family

Favorite song: "Take Me to the King"

Hobbies: Dancing, singing, arts and crafts, swimming

and video games

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

I am thankful for: My life, family, friends, doctors and the fact that God loves me because He healed me

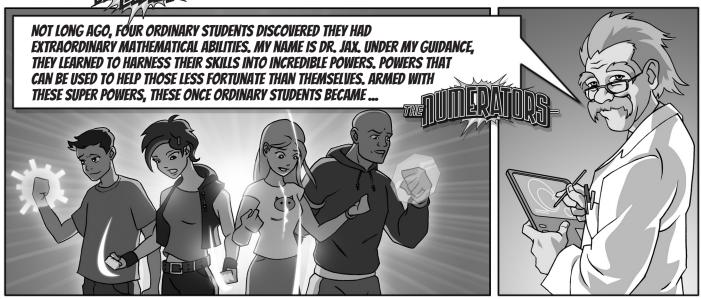
More about you:

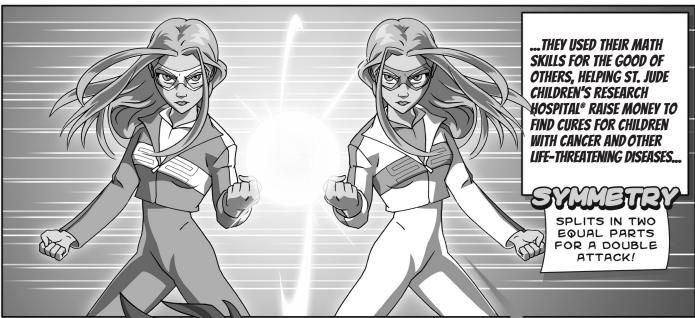
Favorite color:
Favorite school subject:
Favorite food:
Favorite hero:
Favorite song:
Hobbies:
When I grow up, I want to be a:
I am thankful for



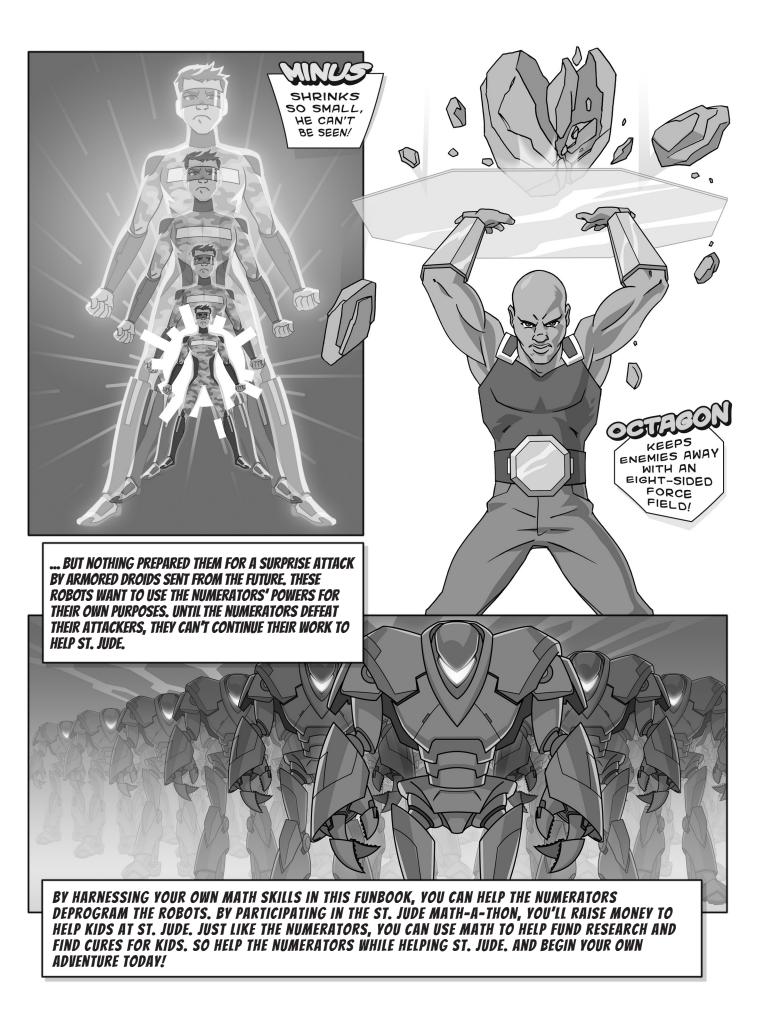
ST. JUDEMATH-A-THON











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-THC



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!



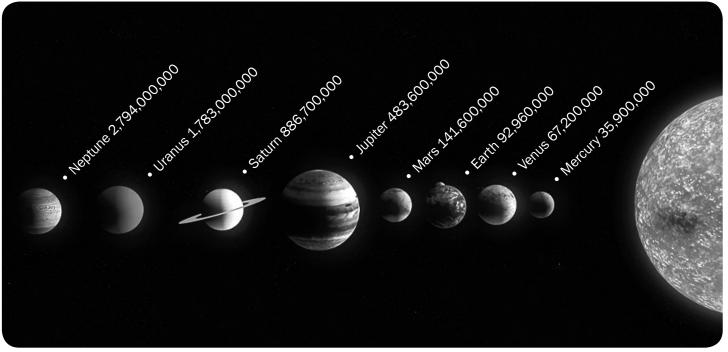




The Solar System and the Sun: Far Out!

The Numerators® are flying into space to measure each planet's distance from the sun (in miles)! Read each number name below. Write the standard form of the number on each blank line. Then look at the chart to see how "far out" each planet is, and write each planet's name next to the correct answer.

1. Thirty-five million, nine hundred thousand miles	1	
2. Eight hundred eighty-six million, seven hundred thousand miles	2	
3. Ninety-two million, nine hundred sixty thousand miles	3	
4. Two billion, seven hundred ninety-four million miles	4	
5. Four hundred eighty-three million, six hundred thousand miles	5	
6. Sixty-seven million, two hundred thousand miles	6	
7. One billion, seven hundred eighty-three million miles	7	
8. One hundred forty-one million, six hundred thousand miles	8.	



Spying on the Robots

The Numerators® are keeping an eye on the diabolical robots through their super-powered telescopes. Choose a number from the telescope lens to fill in each blank so that the result matches the answer shown. You must use all the numbers in each lens and may not use a number more than once. Note: Multiple ways of solving the problems are possible!







C.



D.



E.



F.



G.

7



Н.





ST. JUDEMATH-A-THON

Top Ten: Heaviest Land Animals

These beasts are heavy! Do the multiplication problems. Then write each animal's weight, in pounds, in the space provided. The first one is done for you.

Gorilla	1. 97 x 5 485 Weight: 485 pounds	Bison	2. 147 <u>x 9</u> Weight:
Camel	3. 60 <u>x 11</u> Weight:	Hippopotamus	4. 43 <u>x 40</u> Weight:
Tiger	5. 82 <u>x 16</u> Weight:	Rhino	6. 49 <u>x 45</u> Weight:
Grizzly Bear	7. 294 <u>x 15</u> Weight:	Giraffe	8. 4,409 <u>x 2</u> Weight:
Moose	9. 189 <u>x 14</u> Weight:	African Elephant	10. 689 <u>x 16</u> Weight:

Prehistoric Monument

Monuments are usually built to honor people. Not this one! At this Colorado monument, you can discover fragments of a world where the largest land creatures of all time once roamed! The first one is done for you.

To learn the subject of this monument and the name of the city in which it is located, write the letter that appears beneath the problem that would *not* match the estimated quotient.



Estimated Quotient

Quotient			
1. 5	27 ÷ 5 = 5.4	316 ÷ 58 = 5.448	426 ÷ 68 = 6.265
D	B	C	
2. 8	24 ÷ 8	479 ÷ 59 A	6,432 ÷ 801 O
3. 9	90 ÷ 9	642 ÷ 71	8,080 ÷ 892
	N	G	P
4. 70	850 ÷ 12 M	6,800 ÷ 97	1,626 ÷ 14 O
5. 40	198 ÷ 5	269 ÷ 7	501 ÷ 8
	P	R	S
6. 60	3,000 ÷ 59	432 ÷ 7	5,427 ÷ 91
	A	B	C
7. 20	61 ÷ 3	192 ÷ 17	6,042 ÷ 297
	T	U	V
8. 80	1,234 ÷ 19	555 ÷ 7	4,912 ÷ 61
	R	S	T

5

6

8

2

3

4

1



Crisscross Quotients

This puzzle is similar to a crossword puzzle. But instead of using letters to form words, you use digits to form numbers. Use the clues below to complete the puzzle.

Α		В		С	D		
		E	F				
G	Н		I			J	
K		L			M		
	N				0	Р	7
Q				R			1
S				Т			1

ACROSS

- A. $8,025 \div 25$
- $C. 1,792 \div 2$
- E. 16,385 ÷ 5
- G. 696 ÷ 58
- I. 1,653 ÷ 87
- J. The remainder in $52 \div 12$
- K. 49,428 ÷ 12
- $N. 2,226 \div 42$
- O. 282 ÷ 3
- Q. The remainder in $3,821 \div 72$
- R. 3,320 ÷ 10
- S. $23,616 \div 32$
- T. 32,886 ÷ 81

DOWN

- A. $6,828 \div 2$
- B. The remainder in $9,645 \div 56$
- C. $1,758 \div 2$
- D. 8,148 ÷ 84
- F. 10,293 ÷ 47
- H. 1,075 ÷ 5
- L. 10,944 ÷ 8
- $M. 15,720 \div 4$
- P. 17,040 ÷ 40
- Q. 1,881 ÷ 33
- R. The remainder in 1,618 \div 36



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.

Answers:

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The Solar System and the Sun: Far Out!

- 1. 35,900,000 miles; Mercury
- 2. 886,700,000 miles; Saturn
- 3. 92.960.000 miles: Earth
- 4. 2,794,000,000 miles; Neptune
- 5. 483,600,000 miles; Jupiter
- 6. 67,200,000 miles; Venus
- 7. 1,783,000,000 miles; Uranus
- 8. 141.600.000 miles: Mars

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Spying on the Robots

Possible accept all valid solutions that use the four digits bgiven and the correct order of operations.

Possible answers include:

A. $4 + 3 \times 5 + 5 = 24$

B. $8 \div 1 \times 3 - 4 = 20$

C. $(8 + 6) - 2 \times 5 = 4$ D. $3 \times 3 + 6 \times 3 = 27$

E. $3 - 6 \times 2 \div 4 = 0$

F. $(6 + 2) \times 5 \div 2 = 20$

G. $9 \div 3 \times (7 + 3) = 30$

H. $(9-5) \times (8 \div 2) = 16$

Page 8:

Top Ten: Heaviest Land Animals

- 1. 485 pounds
- 2. 1,323 pounds
- 3. 660 pounds
- 4. 1,720 pounds
- 5. 1,312 pounds 6. 2,205 pounds
- 7. 4,410 pounds
- 8. 8,818 pounds
- 9. 2.646 pounds
- 10. 11,024 pounds

Page 9:

Prehistoric Monument

- 1. D 426 ÷ 68 ≈ 6
- $2.124 \div 8 = 3$
- $3. N 90 \div 9 = 10$
- 4. O $1,626 \div 14 \approx 120$
- 5. S 501 ÷ 8 ≈ 60
- 6. A $3.000 \div 59 \approx 50$
- 7. U 192 ÷ 17 ≈ 10
- 8. R 1,234 ÷ 19 ≈ 60

Page 10: Crisscross Quotients

[^] 3	2	⁸ 1		ُ8	[°] 9	6
4		٤3	⁻ 2	7	7	
°1	2		1	9		4
*4	1	1	9		[™] 3	
	* 5	3			°9	ٌ4
°5		6		[*] 3	3	2
5 7	3	8		4	0	6





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