

St. Jude MATH-A-THON



St. Jude patient
Pablo José

1

LEVEL 2
FUNBOOK



St. Jude
Math-A-Thon

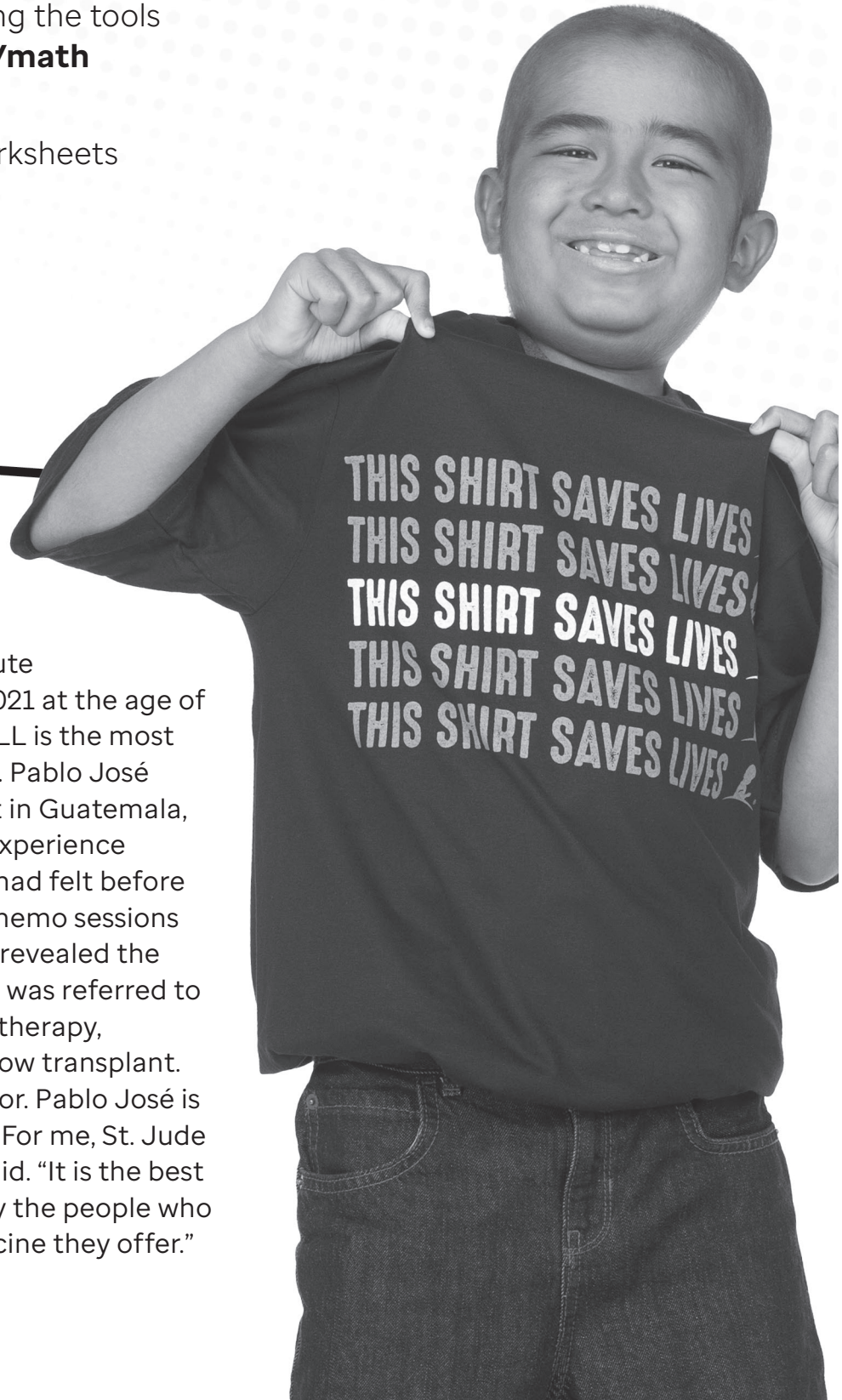
Welcome to the St. Jude Math-A-Thon!

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 Pablo José

Pablo José was diagnosed with acute lymphoblastic leukemia (ALL) in 2021 at the age of 5 in his homeland of Guatemala. ALL is the most common type of childhood cancer. Pablo José received chemotherapy treatment in Guatemala, but after 18 months, he began to experience fevers and the same body pain he had felt before his initial diagnosis. The monthly chemo sessions were suspended, and further tests revealed the leukemia had returned. Pablo José was referred to St. Jude where he received chemotherapy, radiation therapy and a bone marrow transplant. His sister, Valeria, served as his donor. Pablo José is being monitored post-transplant. "For me, St. Jude is another world," his dad, Edgar, said. "It is the best in every sense of the word, not only the people who work at St. Jude but also the medicine they offer."



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 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.

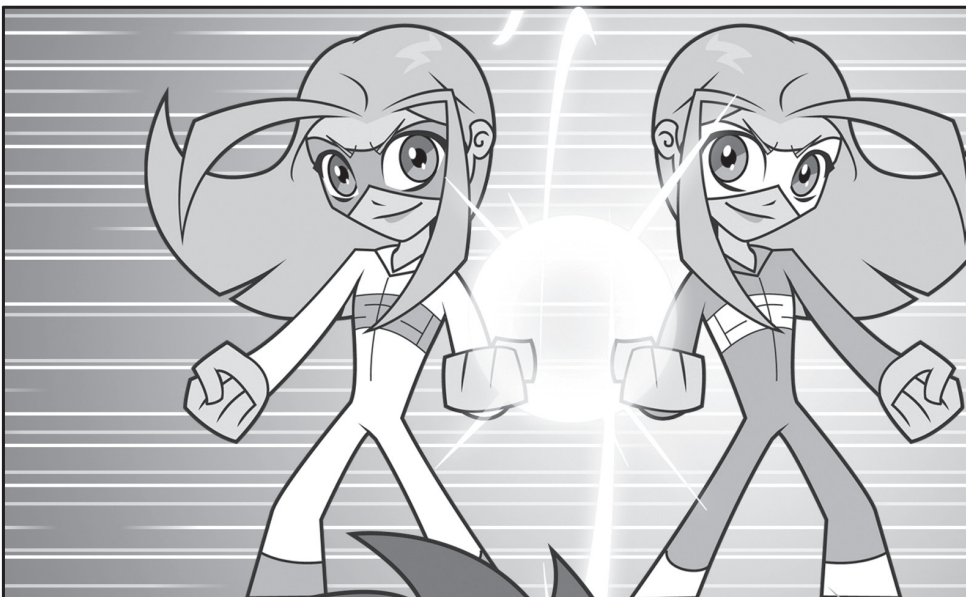
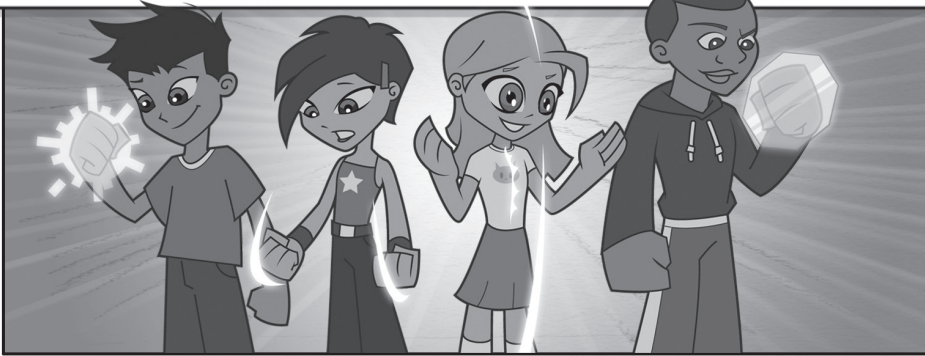


St. Jude patient
Alanna

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 superpowers. 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. They were helping to raise money to find cures for very sick children with diseases like cancer.

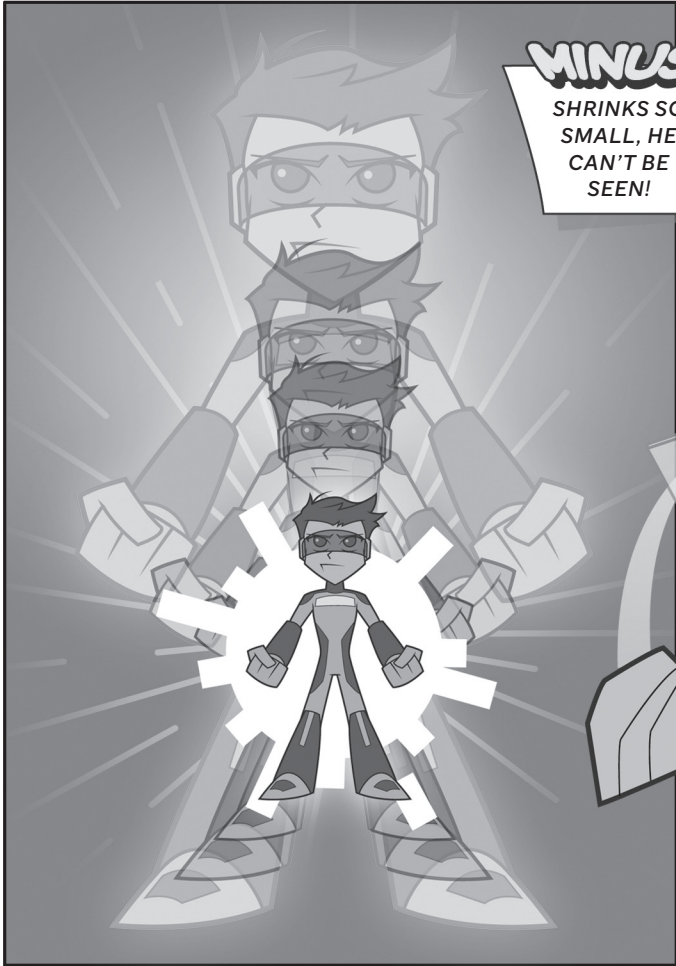
SYMMETRY

SPLITS INTO EQUAL PARTS FOR A DOUBLE ATTACK!



FRACTION

FIGHTS WITH A POWERFUL SLASH!

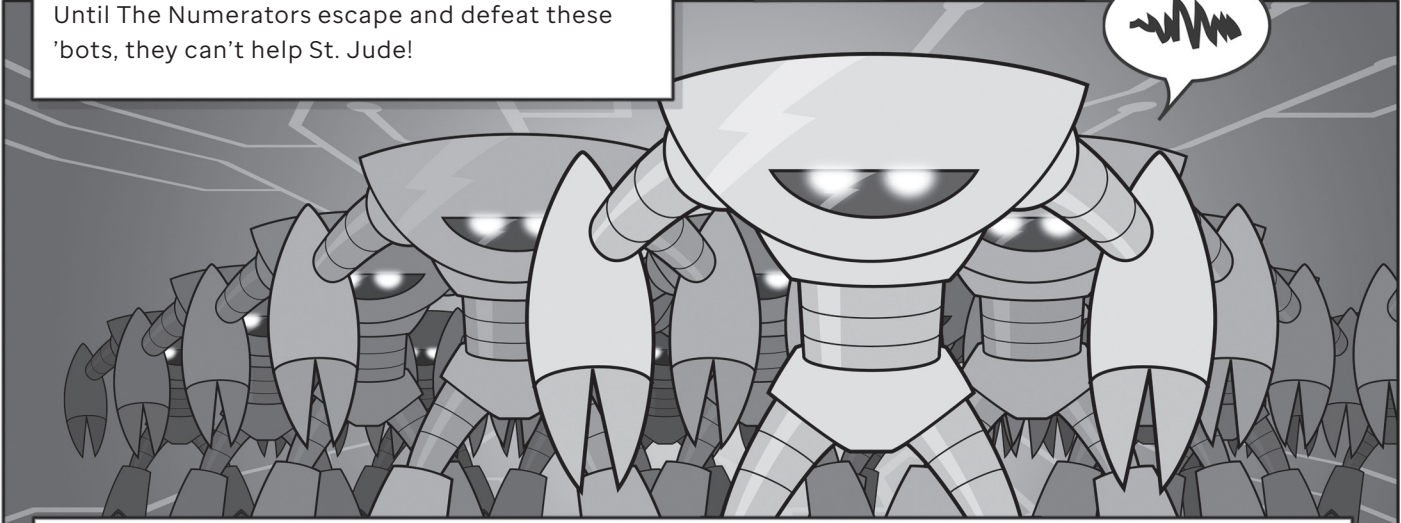


MINUS
SHRINKS SO SMALL, HE CAN'T BE SEEN!



OCTAGON
KEEPS ENEMIES AWAY WITH AN EIGHT-SIDED FORCE FIELD!





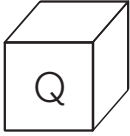





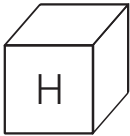


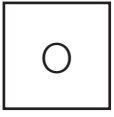


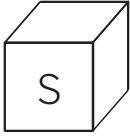


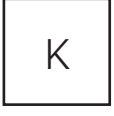


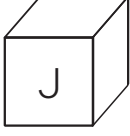


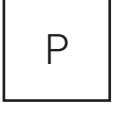


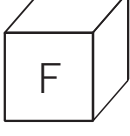


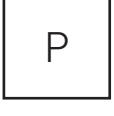


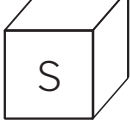

But robots launched a surprise attack on our heroes. The robots wanted to steal The Numerators' math powers for their own purposes. Until The Numerators escape and defeat these 'bots, they can't help St. Jude!



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 at the same time. So get your pencils ready and start your math adventure today!

Shape Secrets

Dr. Jax discovered a coded message hidden in a group of shapes that reveals who is trying to steal The Numerators' powers. Identify each shape to uncover who is behind the attack.

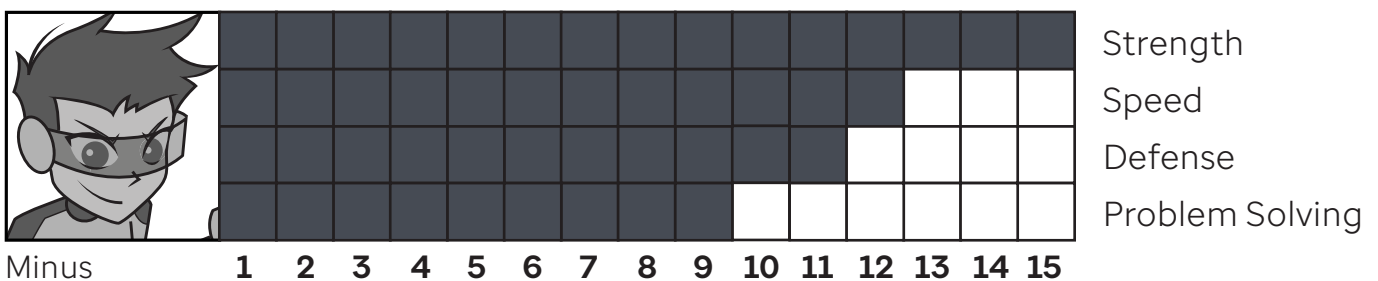
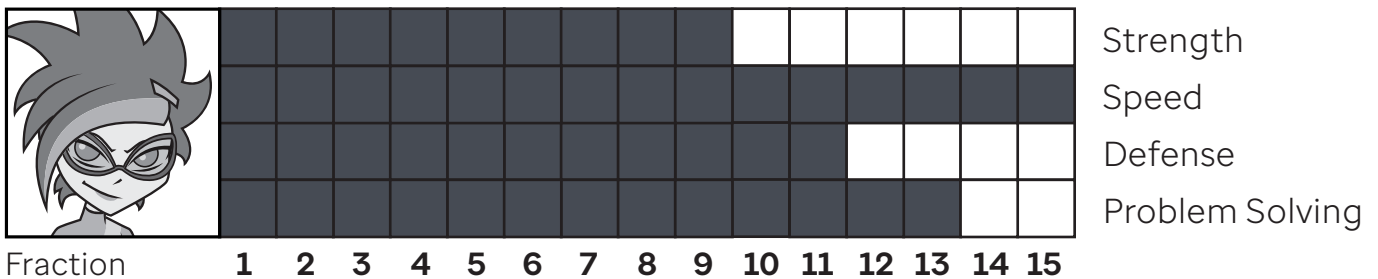
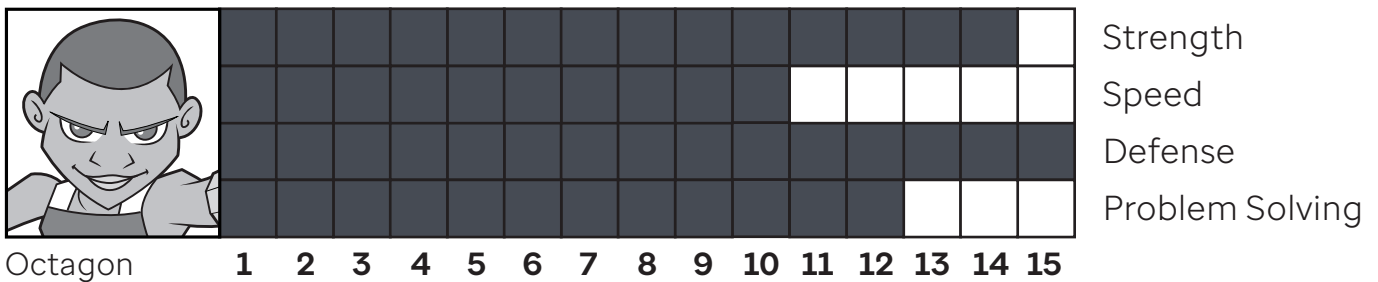
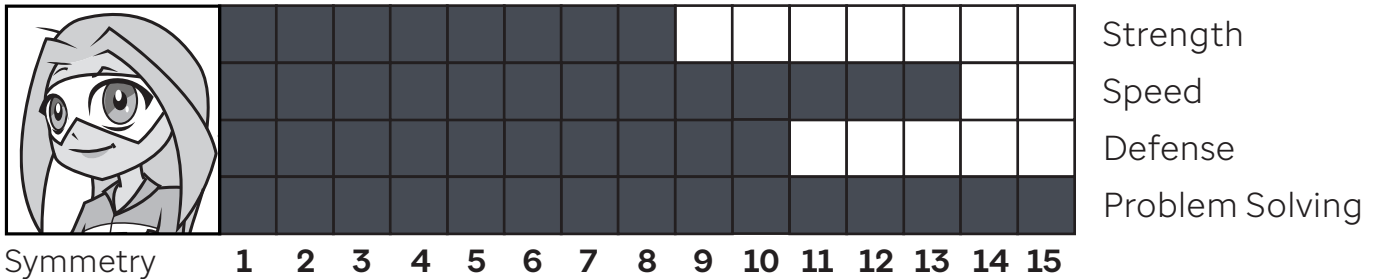
1. Which shape is a pentagon?							
2. Which shape is a triangle?							
3. Which shape is a quadrilateral?							
4. Which shape is a hexagon?							
5. Which shape is a circle?							
6. Which shape is a cube?							

Who is behind the attack?

1 2 3 4 5 6

Superhero Skills

The Numerators must use all their abilities to stop the droids. Compare their strength, speed, defense and problem-solving skills to help Dr. Jax formulate the best plan to defeat the droids.

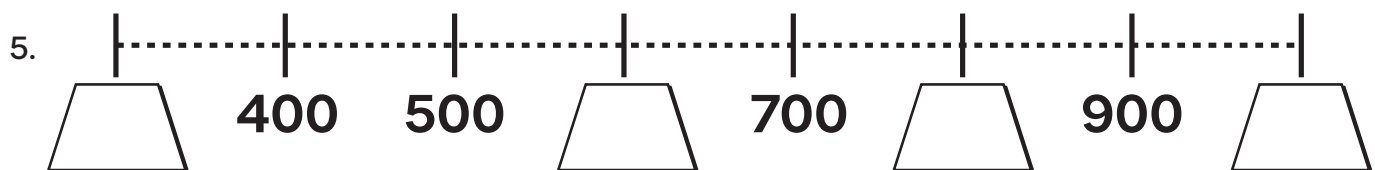
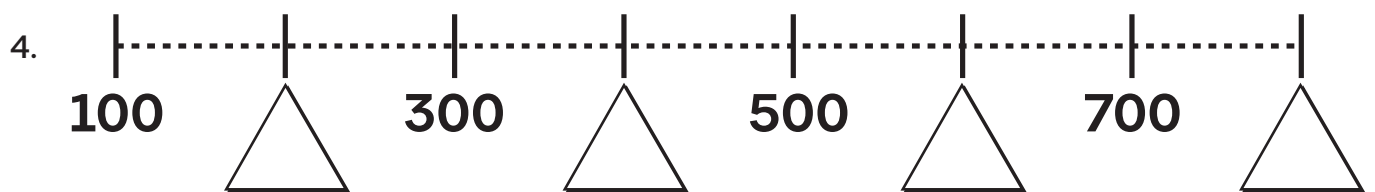
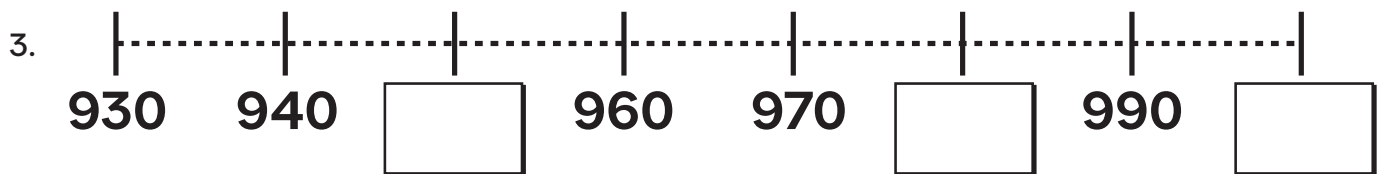
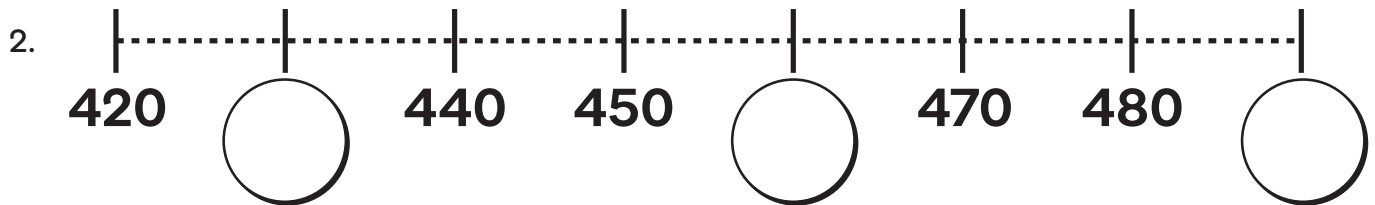
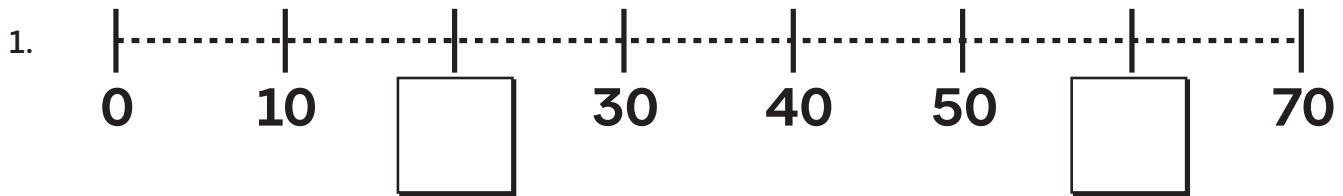


1. Which Numerator is the fastest? _____
2. Which Numerator has the lowest defense? _____
3. Which Numerator has exactly 14 strength points? _____
4. Which Numerator has less than 10 problem-solving points? _____
5. How many more speed points does Fraction have than Octagon? _____

Counting Challenge



The droids have set up a series of traps to capture The Numerators. To avoid the traps, The Numerators need to count by tens and hundreds to find the missing numbers. Help them navigate safely.



Even the Odds

The droids are on the move! The Numerators need to use their math powers to stop them. Count the squares in each row of the grids below, add the totals and circle if the sum is even or odd. Your skills will help The Numerators catch the droids before they get away!

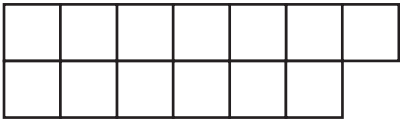
1.



$$4 + 4 = 8$$

Even or Odd

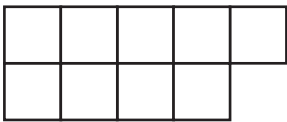
2.



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

Even or Odd

3.



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

Even or Odd

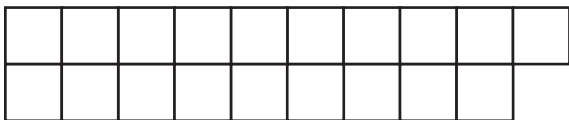
4.



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

Even or Odd

5.



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

Even or Odd

Key Code Quest

The droids have set up a security system that requires a key code to deactivate. Solve the addition problems to find the key code and disable the system.



A			B		C
D		E	F		
G	H		I	J	
K			L		

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

Arrow Adventure

The droids have mixed up the numbers to confuse The Numerators. Draw an arrow from the smallest to the largest number in each block. The letter with the greatest number will unlock a clue to defeat the droids once and for all.

1.

N	M
125	151
↓	↑
127	132
P	R

2.

S	U
892	109
298	901
I	L

3.

L	K
426	711
642	671
N	P

4.

I	G
765	756
567	657
R	O

5.

H	E
412	489
421	491
T	A

6.

O	R
325	352
235	532
K	T

7.

E	N
616	698
629	701
U	S

8.

G	L
780	821
817	779
H	P

9.

W	H
514	541
511	520
X	M

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 find how to defeat the droids.

M _____ S

151

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 patient
Hunter



LEVEL 2
FUNBOOK



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