



Think e Matics

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## STUDENT COMPANION

NAME: \_\_\_\_\_



1. In paragraph 1, the narrator states “The Planet of Jaspiobus extolled for its peace and serenity has become the envy of the galaxy.” The term *extolled* in this context means?

- a. to praise enthusiastically
- b. to condemn
- c. to denounce
- d. to castigate

2. How do the inhabitants of Zaslohiri view the Kleptonic?

- a. They covet the Kleptonic.
- b. They wish to destroy the Kleptonic.
- c. They abjure that the Kleptonic contains the gateway to peace.
- d. They dislike the powers of the mighty Kleptonic.

3. In paragraph 2, which of the following best describes Tretch?

- a. Tretch is one of a kind with extraordinary talents.
- b. Tretch is an ordinary space alien with minimal talents.
- c. Tretch is the best spaceship builder in Jaspiobus.
- d. Tretch has an unimaginative personality lacking innovation.



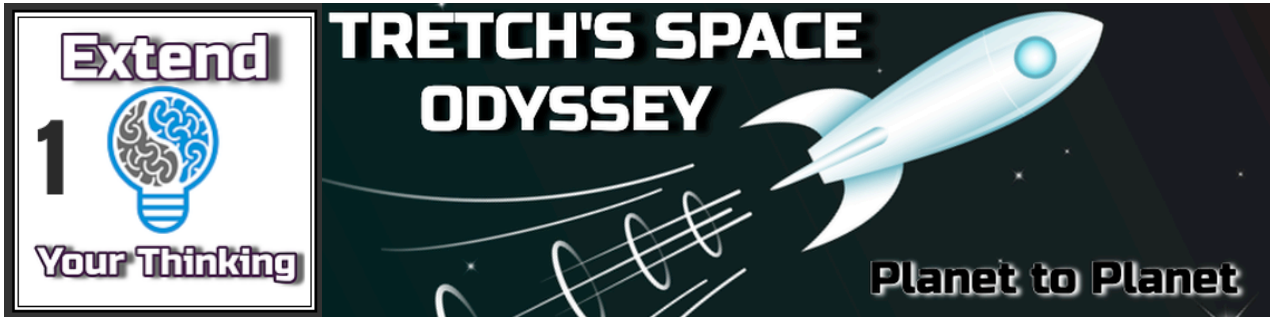
1. The narrator states that the residents of Jaspibus were “stymied” from the thought that the precious treasure of their planet could be gone. The term “*stymied*” in this context means?

- a. mystified
- b. enlightened
- c. persuaded
- d. delighted

2. Which of the following best describes Lord Ghastly Burrows?

- a. persistent
- b. benevolent
- c. auspicious
- d. honorable

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Calculate the distance in miles from Planet Jaspibus to Planet Zaslohiri. Show all your computation and explain how you ascertained your solution.



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## TOS EXTEND YOUR THINKING 1: "PLANET to PLANET" continued

How long will it take Tretch to get to Planet Zaslohiri from Planet Jasbiobus in hours? Show all computation and explain how you ascertained your solution.



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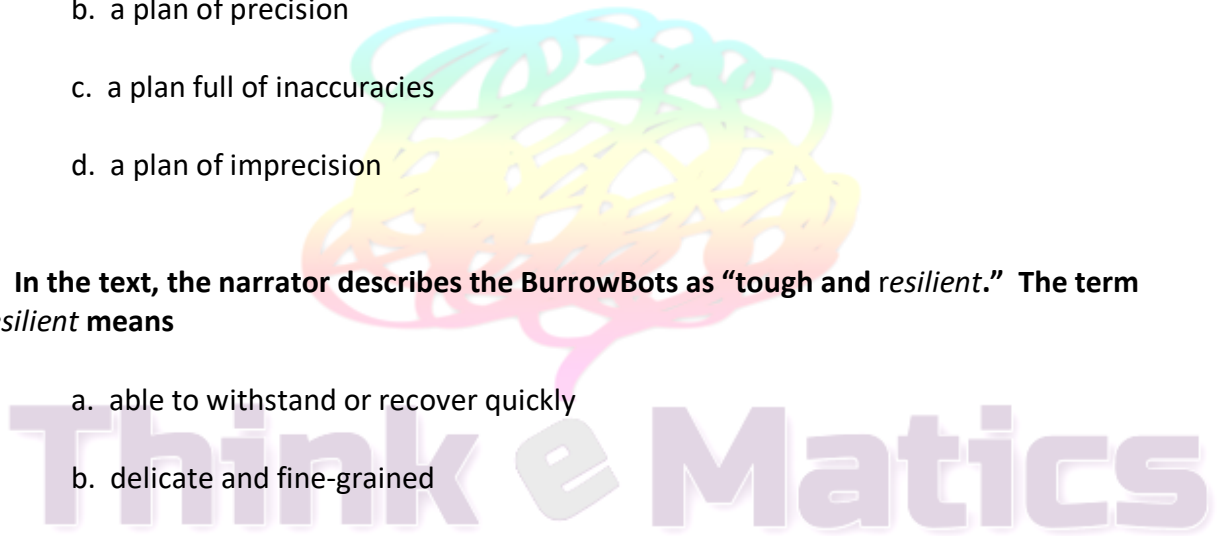


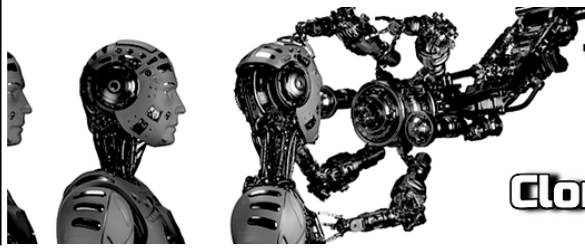
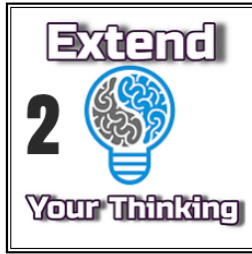
1. Which of the following best describes Tretch's plan?

- a. a fortunate plan
- b. a plan of precision
- c. a plan full of inaccuracies
- d. a plan of imprecision

2. In the text, the narrator describes the BurrowBots as "tough and *resilient*." The term *resilient* means

- a. able to withstand or recover quickly
- b. delicate and fine-grained
- c. spiritless
- d. dynamic but fragile





## TRETCH'S SPACE ODYSSEY

### Cloning BurrowBots

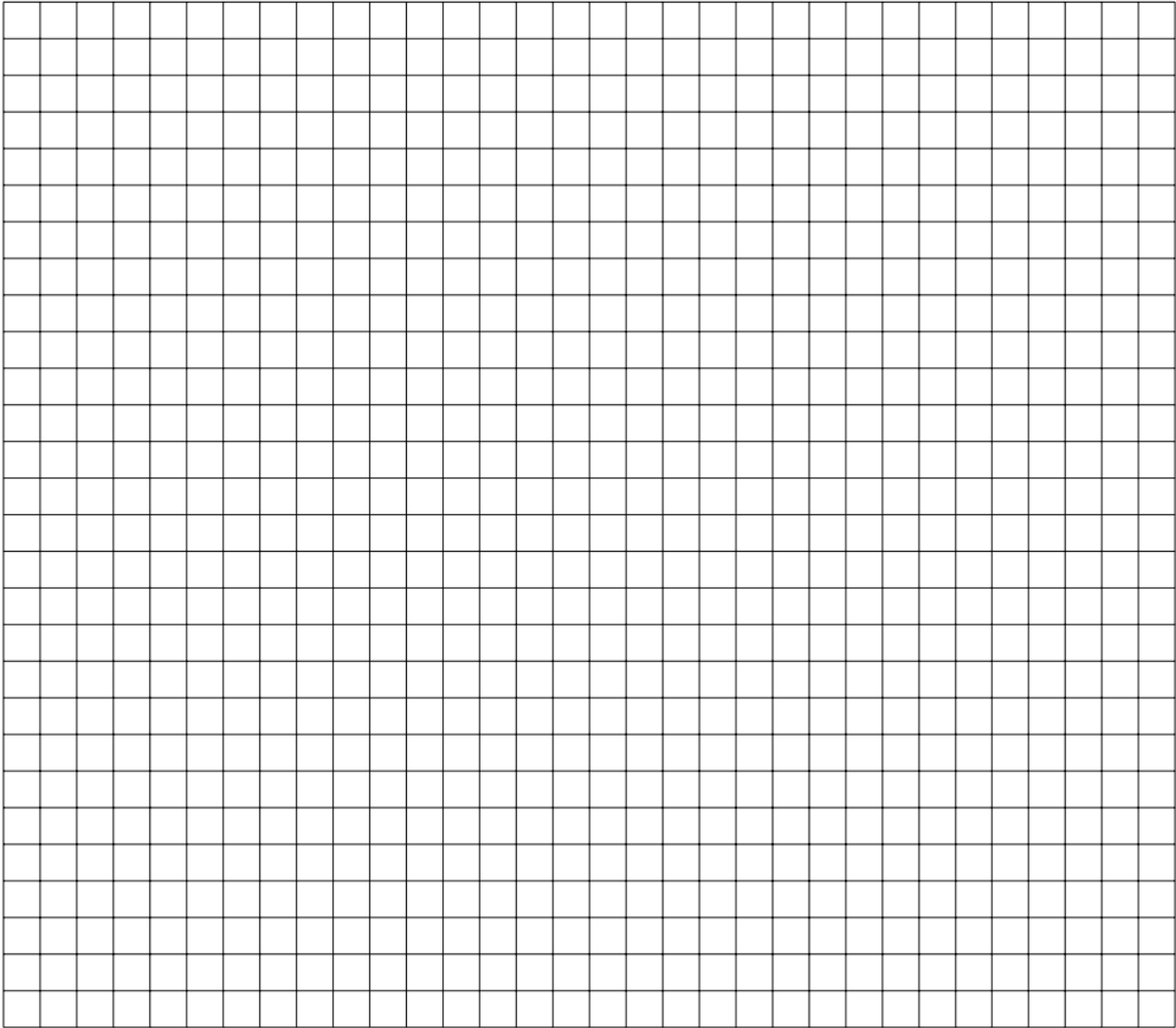
How many BurrowBots can Lord Ghastly manufacture in 20 minutes?

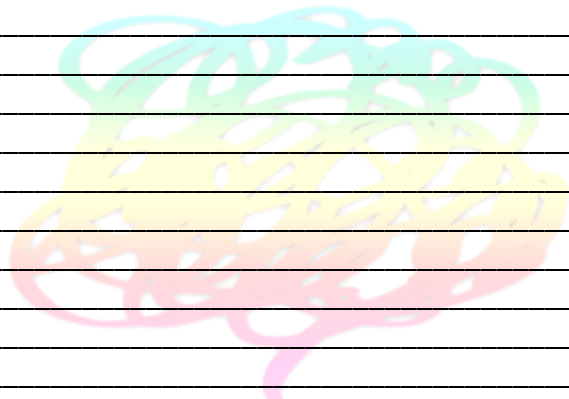
Complete the table of values below.

Time (Minutes)	Cloned Bots (per minute)	Total Bots
0		
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		

TOS EXTEND YOUR THINKING 2: “CLONING BurrowBOTS” continued

Graph the relationship between the amount of BurrowBots produced and time.





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This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and extend across the width of the page. There is a small gap at the top left corner where the lines do not meet.

### TOS EXTEND YOUR THINKING 3: "THE REVENANT" continued

Using scientific notation division how many times faster is The Revenant using the HyperAccelerator? Show all computation






# TRETCH'S SPACE ODYSSEY

**Wiztasma**



Are the BurrowBots within range for Wiztasma to use her sonic-phasma ban"SHE" freeze blaster to disable the bots? Explain how you ascertained your solution. If Wiztasma is not within range, how much closer would she need to be to debilitate the BurrowBots?



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## TOS EXTEND YOUR THINKING 4: "WIZTASMA" continued

Construct a diagram illustrating how you determined if Wiztasma was within range to debilitate the BurrowBots. Show all computation utilized and use labels to identify key elements.



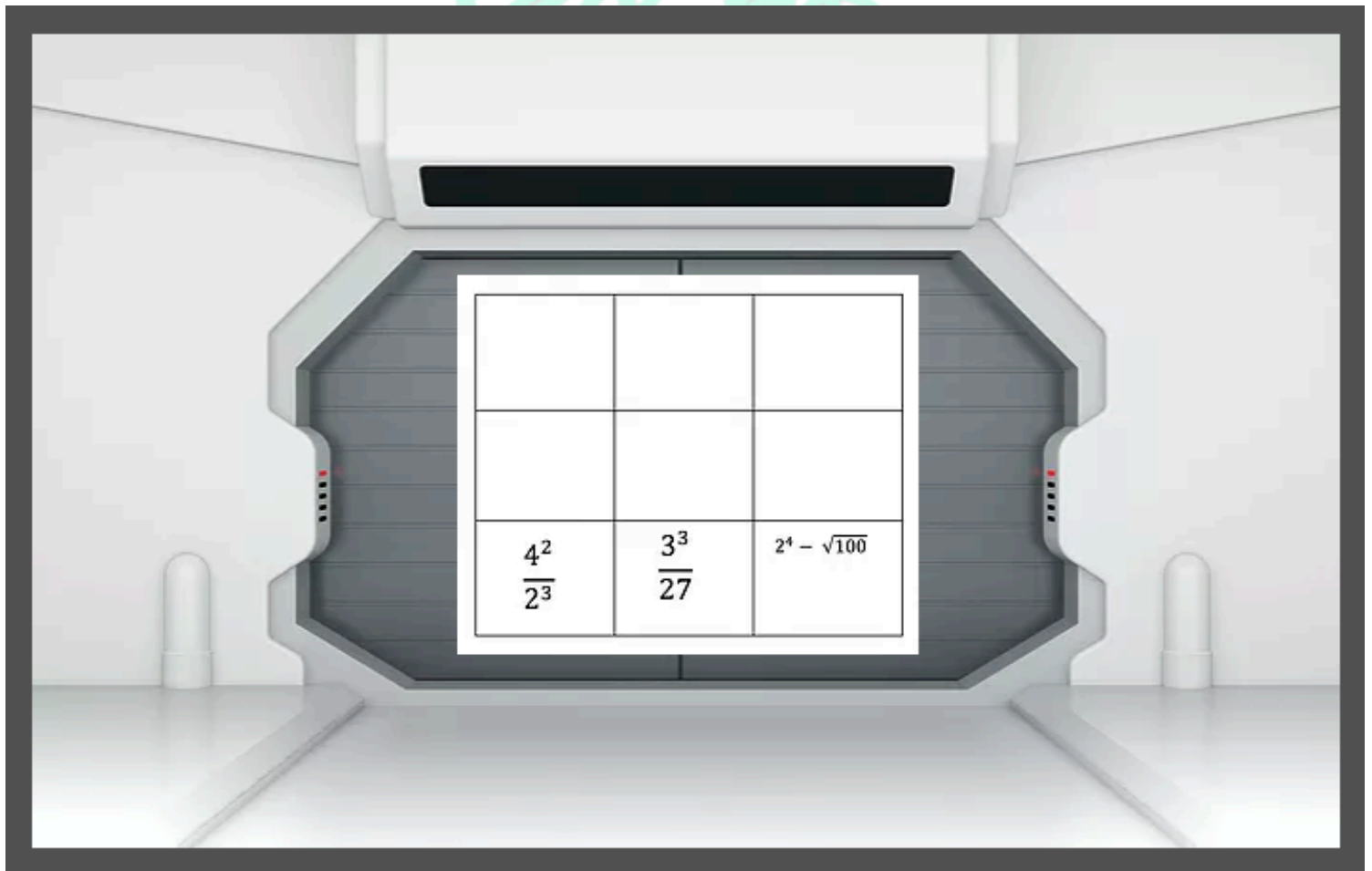
**Extend**  
**5**   
**Your Thinking**

# TRETCH'S SPACE ODYSSEY

Entrance to the Warhammer



Fill in the square where each row, each column, and diagonal of the square must have the same sum. Each square has a value (1-9) and the value can not repeat in another square. The values in the squares must be represented as exponents.



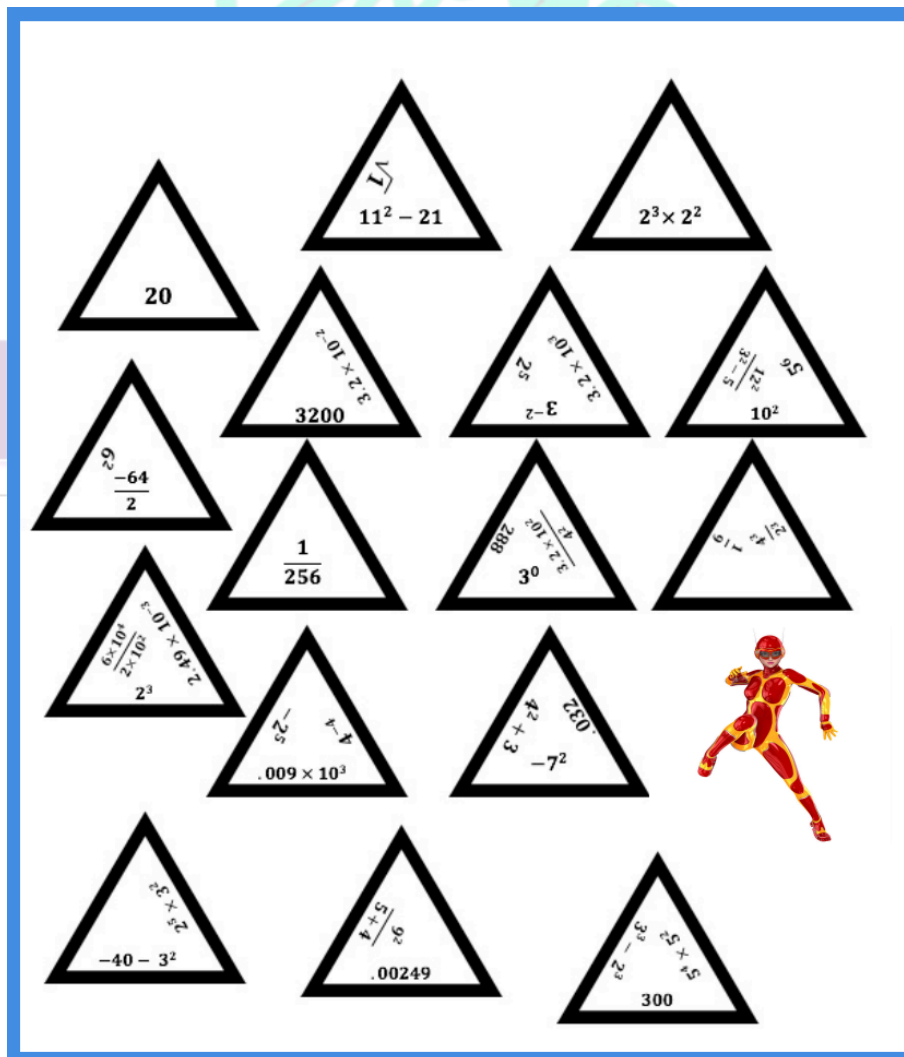
**Extend**  
**6**  
  
**Your Thinking**

# TRETCH'S SPACE ODYSSEY

The Kleptonic Triangle

Tretch and Witzasma worked diligently on trying to make the puzzle pieces fit into place. The twosome collaborated with hopes of not only an escape but also recapturing the Kleptonic.

- Evaluate the triangular pieces and put the puzzle together to stop the deadly gas from being released. Kleptonic Puzzle pieces can be found below.





# TRETCH'S SPACE ODYSSEY

**Race to Jaspibus**

If the Revenant left a quarter of an hour before the Warhammer, traveling at a rate of 5,500,000 miles per hour and they have to travel 1,000,000 miles to get past the BurrowShield, would Tretch and Witztasma escape the clutches of Lord Burrows? Explain how you ascertained your solution.



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