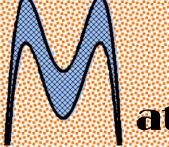
Solving Radical Equations Scavenger Hunt Game



ath with Tyrrell

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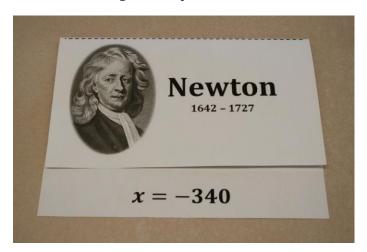
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Materials Included

- Directions
- Teacher's Key
- Student Worksheet
- Scavenger Hunt Problems

<u>Teacher Preparation</u>

- 1. Print teacher's key and student worksheet (pages 4 6).
- 2. Make copies of the student worksheet for every student in your class.
- 3. Print the scavenger hunt problems (pages 7-36). **The scavenger hunt problems must be printed double-sided (page 7 is printed on the back of page 8, etc.)**. You may have to manually print on both sides or you may have to use a duplex setting on the printer.
- 4. Fold the scavenger hunt problems on the dotted line.

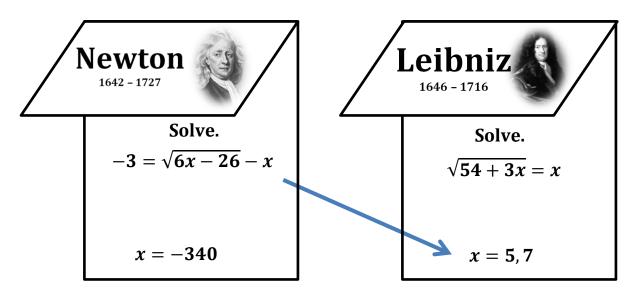


5. Tape the scavenger hunt problems around the classroom making sure that students are able to reach them.

Getting Students Started

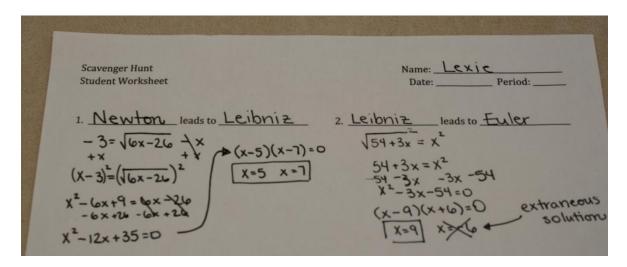
- 1. Pass out the student worksheets.
- 2. The first few times I do a scavenger hunt with a class I work through one scavenger hunt problem with the class. If possible, project the student worksheet on the SMART Board or document camera.
- 3. Students will start at a scavenger hunt problem by writing down the mathematician on the outside flap.
- 4. Students will then open the flap and write down the problem on the inside.
- 5. Students will find the answer to the problem on their worksheet.

6. Students will then search for the answer on the bottom of another scavenger hunt problem around the classroom. Students will write down the mathematician once they've found it and repeat the process.



7. Students will know that they are finished when they loop back around to the scavenger hunt problem they started with.

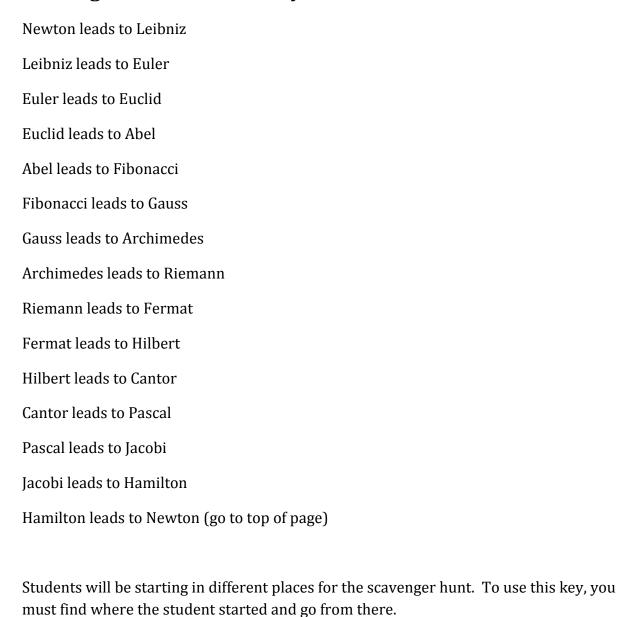
Example Student Worksheet:



I hope that you and your students enjoy the scavenger hunt game. If you ever have any questions, please let me know. I am always looking for ways to improve so please leave your feedback and rating. Thank you!

All mathematician images are public domain images found using Wikimedia Commons.

Scavenger Hunt Teacher Key



Scavenger Hunt			Name:		
Student Worksheet			Date:	Period:	
1	leads to	2	leads to _		
3	leads to	4	leads to _		
5	leads to	6	leads to _		

7. ______ leads to ______ 8. _____ leads to ______

9	_leads to	10	leads to
11	loads to	10	loads to
11	_ leads to	12	leads to
10	_ leads to	1./	_ leads to
13	_ reaus to	14	_ leaus to
15	_ leads to	16	_ leads to
	_ 10440 00		



1642 - 1727

Solve $-3 = \sqrt{6x - 26} - x$

$$x = -340$$

9121 - 9191 ZIUQIƏ7

Solve $\sqrt{54 + 3x} = x$

$$x = 5, 7$$



Ealler 1783

$$\sqrt{\frac{x}{8}} + 6 = 4$$

$$x = 9$$



Euclid 300 BCE

$$\sqrt[4]{10-x} = \sqrt[4]{x-4}$$

No Solution



19dA esst - sost

Solve $56 = 7\sqrt{x - 10}$



Fibonnacci 1170-1250

$$\sqrt[3]{-3-x}=1$$

$$x = 74$$

SSN-7771



$$\sqrt[5]{3x-7} = \sqrt[5]{x+3}$$

$$x = -4$$



Archimedes say bce - 212 bce

Solve $\sqrt{-72 + 17x} = x$



Riemann 1826-1866

$$x = 6 + \sqrt{4x - 28}$$

$$x = 8, 9$$



Fermat 1665

$$8\sqrt{2x-6}+4=68$$

$$x = 8$$



Hilbert 2481

$$\sqrt[100]{-1-11x} = \sqrt[100]{2x+12}$$

$$x = 35$$



101us 1845 - 1918

$$\sqrt{29-5x} = x-1$$

$$x = -1$$



1623 - 1662 PASCAI

$$5\sqrt[3]{4x} - 2 = 18$$

$$x = 4$$



1804-1821 1804-1821

$$\sqrt[3]{x} = 9$$

Hamilton 2981-2081



Solve $10\sqrt[5]{4 - 3x} = 40$