

19 MATH STORIES

Math Surprises for Young Mathematicians, K-8

Something Odd

The First Piggy's Math Adventure with Big Bad Wolf



Smart Division

Who's the Big Bad Wolf?

A Math Fairy Tale



Making 10 - Stage 1

Hoodie's Math Adventure with Big Bad Wolf

To Infinity and Beyond

The real story of Rapunzel



Making 10 - Stage 2

Hoodie's Second Math Adventure With Big Bad Wolf

Add it Up!

The Boy who cried "Wolf" meets Wolf in sheep's clothing



Math Trains

Smart Multiplication

Fox gets the grapes!



Math Waves



Scary Patio Patterns

Piggy and Wolf solve another math problem



Big party, Small party

Little Bear helps plan a party that's just right



Wolf gets Hurt!

The Third Piggy Sets a Trap for Big Bad Wolf



Do Parallel Lines Meet?

The Second Piggy's Math Adventure with Big Bad Wolf



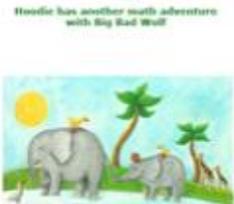
Mirror, Mirror



How Big is a Billion?



Why do Elephants have Big Ears?



Tortoise & Hare Hop to the Pond



The Rematch!

How left-handed are you?



ABOUT EACH STORY

NUMBER

1. **Something odd** - grades 1-8

- The First Piggy's Math Adventure with Big Bad Wolf. The First Piggy discovers odd numbers hiding in squares. Where do even numbers hide?



2. **Who's the Big Bad Wolf?** - grades 1-8

- Someone is scaring young children away from math. Is it you? Hoodie loves math, but overhears her Mom say she hates it. So she dreams meeting Big Bad Wolf, who offers her a math adventure. Will her Mom approve?



3. **To infinity & beyond** - grades 3-8

- Everyone knows the story of Rapunzel, trapped in her tower, waiting for a prince to save her. But do you know the real story? And do you know that the real story is a math love story? Hold infinity in the palm of your hand!



4. **Add it up!** - grade 2-4

- The boy who cried "Wolf!" meets Wolf in sheep's clothing and learns neat ways of adding numbers in his head.

$$28 + 35$$

5. **Smart multiplication** - grades 3-6

- Fox gets the grapes, with smart multiplication and a little help from Crow.

$$\begin{array}{r} 19 \\ \times 6 \\ \hline \end{array}$$

6. **Smart division** - grades 5-8

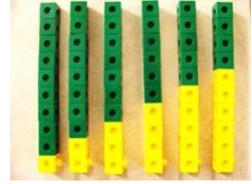
- When the Queen's mirror can't decide whether her division method is the fairest of all, the Queen hosts a Division Festival. People from here and there and from near and far come to the palace with their division methods. Will the Queen be able to decide which division method is the fairest of all?

$$\begin{array}{c} \textcircled{10} \\ \textcircled{10} \\ \textcircled{10} \\ \textcircled{10} \\ \textcircled{10} \end{array} \div \begin{array}{c} \textcircled{4} \\ \textcircled{4} \\ \textcircled{4} \\ \textcircled{4} \\ \textcircled{4} \end{array} = 84 \div 6$$

PATTERN & ALGEBRA

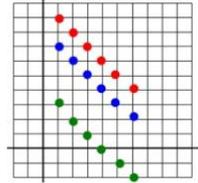
7. Making 10, stage 1 - grades 1-3

- Hoodie's Math Adventure with Big Bad Wolf. Hoodie discovers the patterns and pleasure of making sums of 10. But something in Grandma's house doesn't add up!



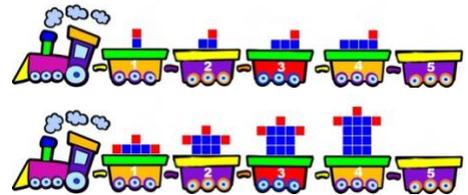
8. Making 10, stage 2 - grades 4-8

- Hoodie discovers the graphical patterns and the pleasure of making sums of 10. But something in Grandma's house doesn't add up!



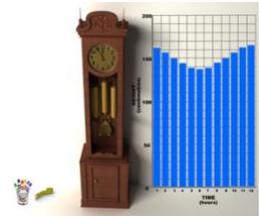
9. Math trains - grades 1-8

- The Second Piggy loves trains, and Wolf has a math surprise for her: a math train. Should she follow Wolf into the woods to see it? Piggy discovers math train growth patterns. When she plots them on a bar graph she notices that some are steeper than others, and wonders why.



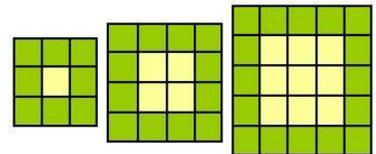
10. Math waves - grades 3-8

- Hickety, dickety, dock, the mouse ran up the clock ... and helped Peter discover math waves, with the help of a clock ... and in the path of dot on a car tire: *Imagine a yellow dot on a car tire, turning as the car moves forward. If the dot leaves a trail as it moves, what will the trail look like?*



11. Scary patio patterns - grades 4-8

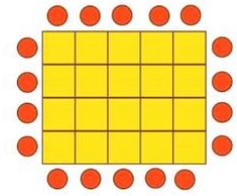
- Wolf has a math problem, involving patio stones of two different colours. Will the Second Piggy be able to help?



MEASUREMENT & GEOMETRY

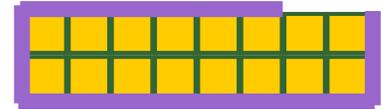
12. **Big party, small party** - grades K-4

- Little Bear helps plan a party that is not too small, or too big. He helps plan a party that is just right, by exploring the number of chairs that will fit around 16 small tables that are joined to form a large dinner table.



13. **Wolf gets hurt** - grades 2-8

- The Third Piggy sets a trap for Big Bad Wolf and he and the other Piggies use math to build the largest pen for Wolf. But they also realize that their sloppy living habits have hurt Wolf's habitat.



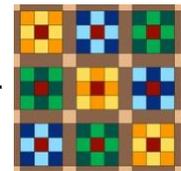
14. **Do parallel lines meet?** - grades 2-8

- The Second Piggy and the Wolf are running on parallel paths, but are they destined to meet? Piggy discovers that parallel lines aren't as straight forward as she expected.



15. **Mirror, Mirror** - grades 2-6

- When the Queen's mirror can't decide whether her quilt pattern is the fairest of all, the Queen hosts a Quilting Festival. Quilters from here and there and from near and far come to the palace with their beautiful quilts. Will the Queen be able to decide which one is the fairest of all?



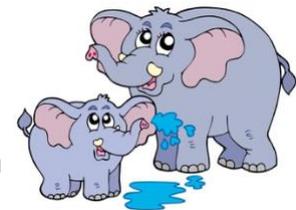
16. **How big is a billion?** - grades 3-8

- Savannah and Tanner are waiting for their Moms to finish shopping when they see a homeless family, huddling against a cold breeze. They also see a newspaper headline advertising a billion dollar tax cut. What could they do to help? What could you do to help?



17. **Why do elephants have big ears?** - grades 6-8

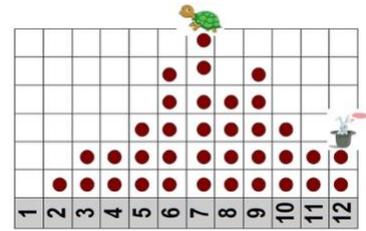
- Hoodie has another math adventure with Big Bad Wolf. Wolf asks, "Why do elephants have big ears?" and Hoodie uses cubes to model elephants of various sizes to discover a neat relationship between surface area and volume.



DATA MANAGEMENT & PROBABILITY

18. Tortoise & Hare - the rematch - grades 1-8

- Hare challenges Tortoise to a rematch. Who's going to win the hop-to-the-pond race? Hare discovers that it's good probability thinking — and not good luck or good hopping — that wins the race.



19. How left-handed are you? - grades 2-8

- Little Bear tries to measure how left-handed she is. How will she do it?

