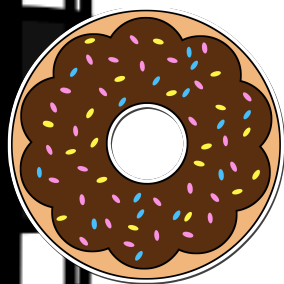


Systems of Equations Puzzles



Logic Puzzles to
Introduce Systems of
Equations and Encourage
Algebraic Thinking

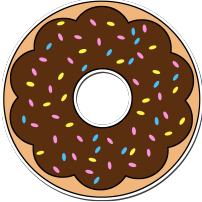



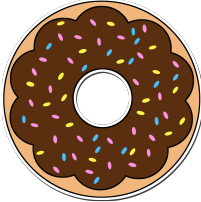


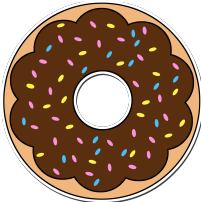

By Bethany @
MathGeekMama.com



Teaching Tips: Systems Puzzles

- There are lots of ways you can use these puzzles. If you have upper elementary students and want to encourage early algebraic thinking or have some gifted students or early finishers who need a challenge, these would be great! This is also a fun way to introduce systems to high school algebra students. Once they realize they can solve this puzzle, they see that they can solve a linear system of equations!
- There are 5 different puzzles, but two types:
 - Easy (where there is at least one row that has 3 of a kind, allowing you to solve for that variable (or treat) first and then easily plug it in to find the others).
 - Then there are two harder puzzles in which there is no "starting" row, making it more difficult to isolate variables and solve. These may be better suited to older students who enjoy a challenge or high school students familiar with solving systems (it's not that hard if you write some equations from the information in the puzzle).

Find the Cost of Each Treat:

| | | |
|--|--|---|
|  |  |  |
|  |  |  |
|  |  |  |

Total:

\$25.71

\$24.44

\$25.71

Total:

\$25.71

\$23.21

\$26.94



Cost: _____

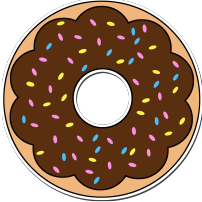



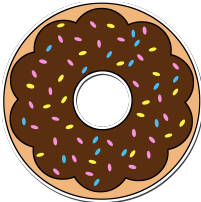






Cost: _____



Cost: _____

Find the Cost of Each Treat:

| | | |
|--|--|---|
|  |  |  |
|  |  |  |
|  |  |  |

Total:

\$25.71

\$24.44

\$25.71

Total:

\$25.71

\$23.21

\$26.94



Cost: \$6.48








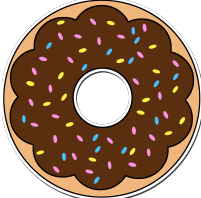



Cost: \$10.25



Cost: \$8.98

Find the Cost of Each Treat:

| | | |
|--|--|---|
|  |  |  |
|  |  |  |
|  |  |  |

Total:

\$10.09

\$10.79

\$10.79

Total:

\$12.55

\$6.57

\$12.55



Cost: _____












Cost: _____



Cost: _____

Find the Cost of Each Treat:

| | | |
|--|--|---|
|  |  |  |
|  |  |  |
|  |  |  |

Total:

\$10.09

\$10.79

\$10.79

Total:

\$12.55

\$6.57

\$12.55



Cost: \$2.19

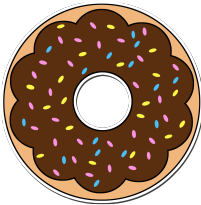



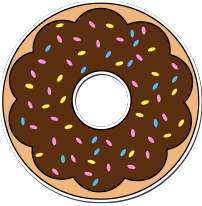
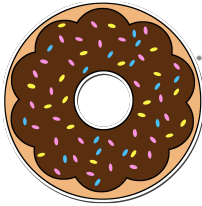





Cost: \$4.65



Cost: \$3.95

Find the Cost of Each Treat:

| | | |
|--|--|---|
|  |  |  |
|  |  |  |
|  |  |  |

Total:

\$7 .17

\$5 .37

\$14 .97

Total: \$9 .17

\$9 .17

\$9 .17



Cost: _____







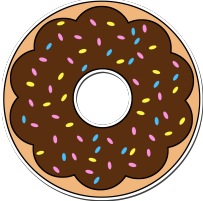
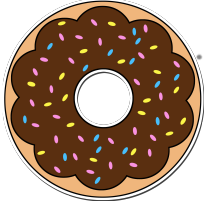



Cost: _____



Cost: _____

Find the Cost of Each Treat:

Total:

| | | |
|--|--|--|
|  |  |  |
|  |  |  |
|  |  |  |

\$7.17

\$5.37

\$14.97

Total: \$9.17

\$9.17

\$9.17



Cost: \$1.19





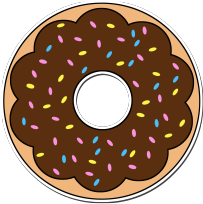






Cost: \$4.99



Cost: \$2.99

Find the Cost of Each Treat:

| | | |
|--|--|---|
|  |  |  |
|  |  |  |
|  |  |  |

Total:

\$12.75

\$7.50

\$9.75

Total:

\$12.75

\$6.75

\$10.50



Cost: _____





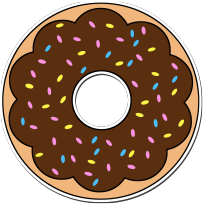






Cost: _____



Cost: _____

Find the Cost of Each Treat:

| | | |
|--|--|---|
|  |  |  |
|  |  |  |
|  |  |  |

Total:

\$12.75

\$7.50

\$9.75

Total:

\$12.75

\$6.75

\$10.50



Cost: ____\$1.50____







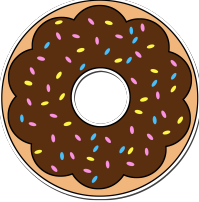




Cost: ____\$3.75____



Cost: ____\$4.50____

Find the Cost of Each Treat:

| | | |
|--|--|---|
|  |  |  |
|  |  |  |
|  |  |  |

Total:

\$12 .30

\$10 .55

\$8 .80

Total: \$10 .55

\$9 .25

\$11 .85



Cost: _____





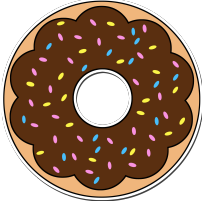


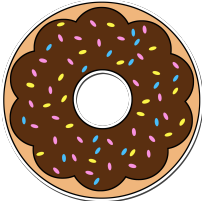



Cost: _____



Cost: _____

Find the Cost of Each Treat:

| | | |
|--|--|---|
|  |  |  |
|  |  |  |
|  |  |  |

Total:

\$12.30

\$10.55

\$8.80

Total:

\$10.55

\$9.25

\$11.85



Cost: ____\$2.50____



Cost: ____\$4.25____



Cost: ____\$3.80____

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