

Number Tile Math Activities



A Free Resource for Grades 5–8



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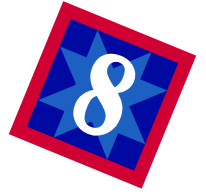
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Why Number Tiles?



Because the Number Tiles can be moved around without the need to erase or cross out an answer, students are more at ease and more willing to try the various activities. There is something about not having a permanent answer on the page that allows the student to explore, investigate, problem solve, and yes, even guess.

Objectives: To problem solve using Number Tiles; to use critical thinking skills; to arrange the Number Tiles correctly.

Materials Needed: Number Tile Pages

*Number Tile Keeper– one per student (copy and cut apart)

*This is available in the full download.

Construction Paper or cardstock in a variety of colors

Procedures:

- 1) Using squares of construction paper or colored cardstock:
 - a) Cut ten 1” squares for each student.
 - b) Number the tiles, using the numerals 0 - 9.
 - c) You may laminate these if you wish.
 - d) Store the Number Tiles in a snack size plastic bag.
- 2) The Number Tile activities require that the students use each tile only once. However, some of the activities will not require that all ten tiles be used; so, follow the directions carefully.
- 3) Before beginning the Number Tile activity, have the students place their tiles in numerical order on the *Tile Keeper. (Laminating these will guarantee that they will last awhile.) This will allow the students to keep track of which tiles are used.

Helpful Hint:

Make the tiles from different colored paper. In that way, each student can have one specific color, eliminating the problem of everyone having only white tiles. When a tile is dropped or misplaced, it is easier to discover to whom it belongs based on its color.

Two Digit Addition

Use all of the Number Tiles to solve the addition problems below.

$$\begin{array}{r} \boxed{}2 \\ + 2\boxed{} \\ \hline 89 \end{array}$$

$$\begin{array}{r} 5\boxed{} \\ + \boxed{}7 \\ \hline 67 \end{array}$$

$$\begin{array}{r} 32 \\ + 57 \\ \hline 8\boxed{} \end{array}$$

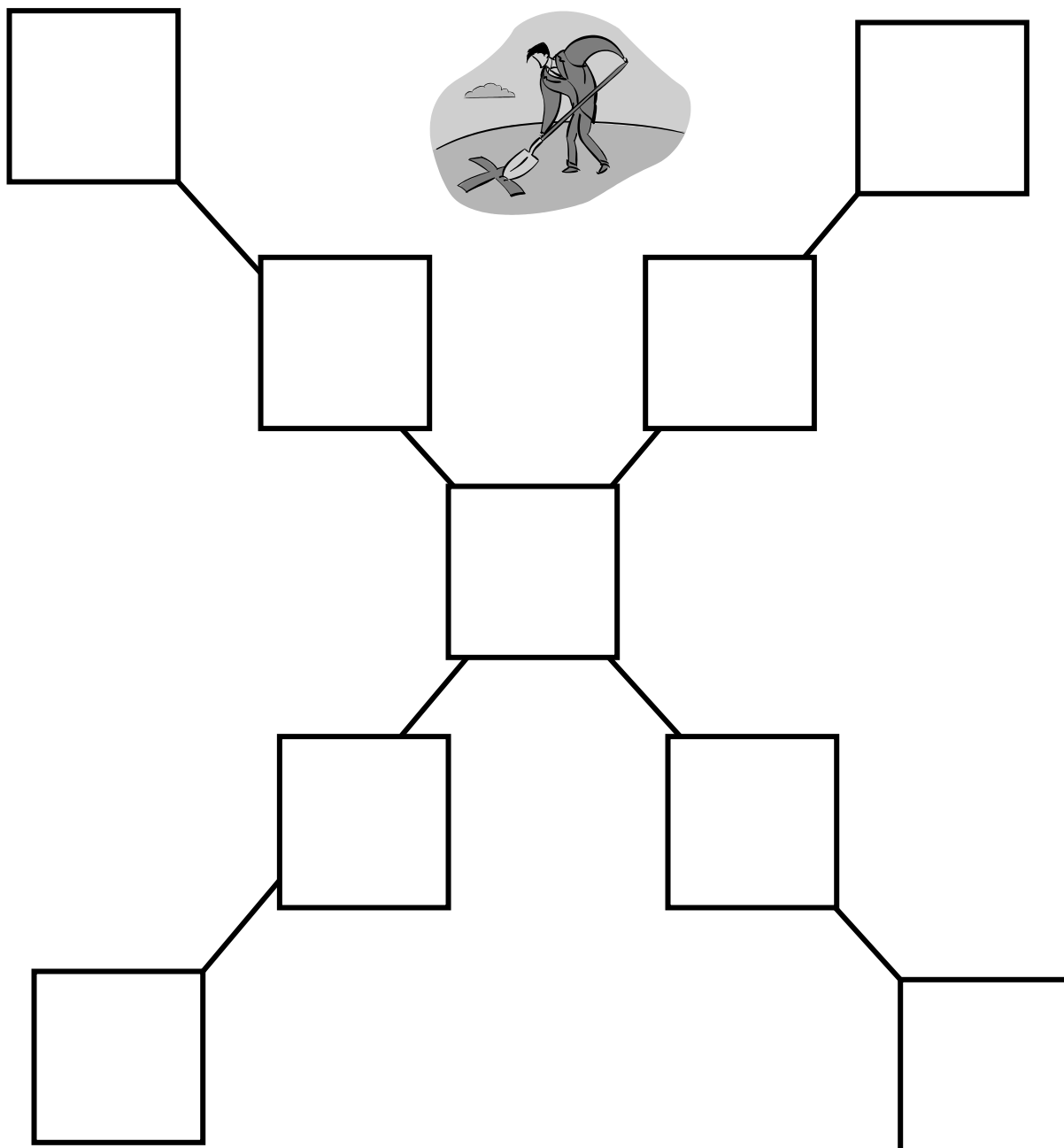
$$\boxed{}2 + 6\boxed{} = 94$$

$$1\boxed{} + \boxed{}5 = 99$$

$$35 + 22 = \boxed{}7$$

“X” Marks the Spot

Use all the Number Tiles **except 0**. Now arrange the tiles 1-9 on the “X” so that the sum of each straight line equals 25.





Multiplication

(2 digit \times 2 digit)

Use all of the Number Tiles to make each multiplication problem correct.

$$\begin{array}{r} \square 3 \\ \times 31 \\ \hline 53 \end{array}$$

$$\begin{array}{r} \square 5 \square \\ \hline \end{array}$$

$$1, \begin{array}{|c|c|c|} \hline \square & \square & \square \\ \hline \end{array}$$

$$\begin{array}{r} \square \square \\ \times 14 \\ \hline \square \square 0 \\ 70 \\ \hline 980 \end{array}$$

Can You Do It?

Using all of the Number Tiles, create six 3-digit numbers, each divisible by the given numbers.

1) Divisible by 2 and 9

	0	
--	---	--

2) Divisible by 2 and 5

	7	
--	---	--

3) Divisible by 3 and 5

9		
---	--	--

4) Divisible by 4 and 6

6		8
---	--	---

5) Divisible by 2 and 9

3		
---	--	--

6) Divisible by 4 and 9

9		6
---	--	---

Answers

Page #4 – Two Digit Addition

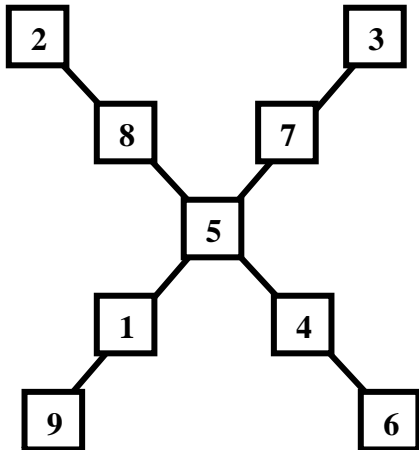
$$\begin{array}{r} 62 \\ + 27 \\ \hline 89 \end{array} \quad \begin{array}{r} 50 \\ + 17 \\ \hline 67 \end{array} \quad \begin{array}{r} 32 \\ + 57 \\ \hline 89 \end{array}$$

$$32 + 62 = 94$$

$$14 + 85 = 99$$

$$35 + 22 = 57$$

Page #5 – “X” Marks the Spot



Page #6 – Multiplication (2 digit × 2 digit)

$$\begin{array}{r} 53 \\ \times 31 \\ \hline 53 \\ 159 \\ \hline 1,643 \end{array}$$

$$\begin{array}{r} 70 \\ \times 14 \\ \hline 280 \\ 70 \\ \hline 980 \end{array}$$

Page #7– *Can You Do It?*

Answers will vary. Here is **one** possible solution.

7 0 2
8 7 0
9 1 5
6 4 8
3 9 6
9 3 6



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A full 24 page resource containing 15 different Number Tile activities may be purchased at <http://www.teacherspayteachers.com/Product/Number-Tiles-Problem-Solving-Math-Activities-for-Grades-5-8>.

Below is the Table of Contents for the full resource.

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