

Name: \_\_\_\_\_

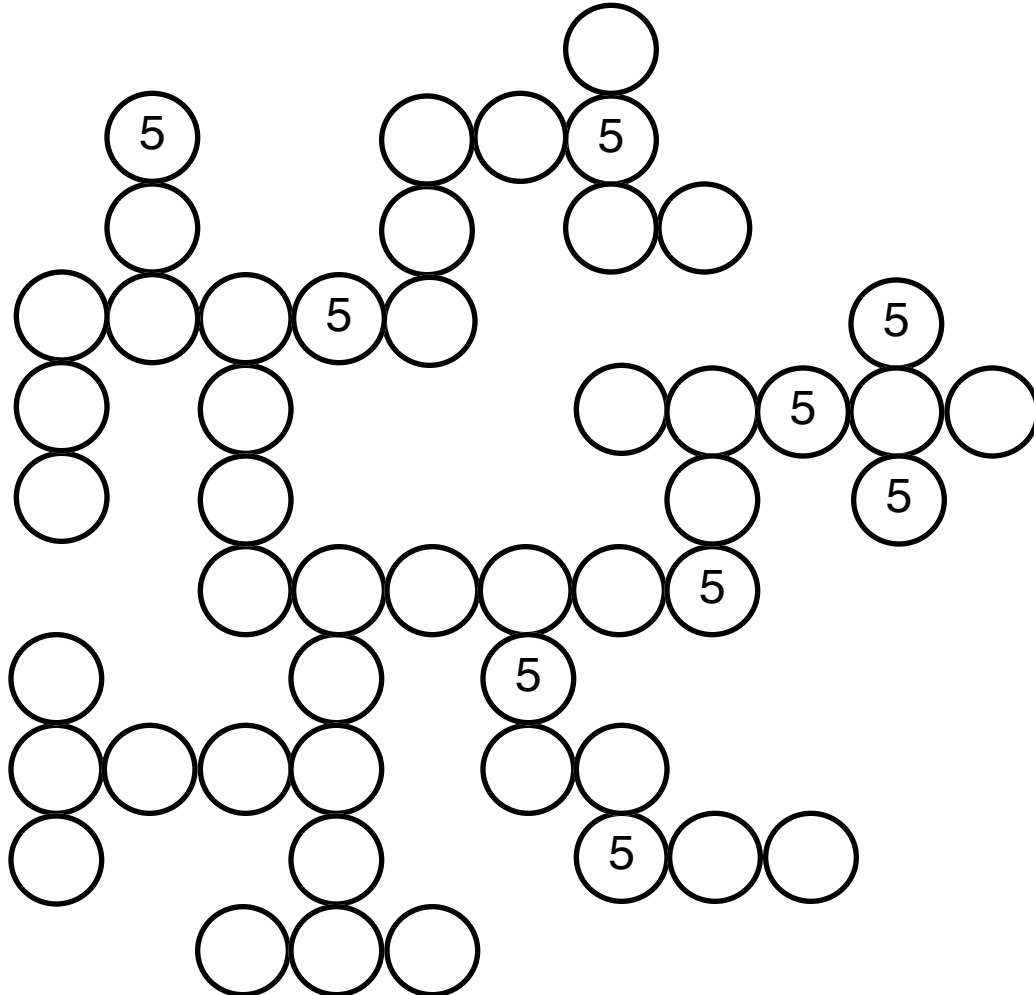
Date: \_\_\_\_\_

Period: \_\_\_\_\_

## Order of Operations Fill In

Evaluate the expressions.

Complete the puzzle using the number of digits in the answer and the digit five as your clues.



$5 + 2 \cdot 5$		$5 \cdot 7 \cdot 20 + 15$	
$2 + 80 \div 2$		$90 \div 3 + 2 \cdot 2 \cdot 5 \cdot 35 + 2 \cdot 2$	
$2 \cdot 25 + 4 \cdot 10 + 1$		$1400 \div 2 + 144 \div 2$	
$2 \cdot 2 \cdot 5 \cdot 5 + 3 \cdot 7$		$2000 - 1500 + 300 - 15$	
$71 + 2 \cdot 100$		$3 \cdot 10 \cdot 10 \cdot 10 + 10 \cdot 10$	
$600 \div 2 + 240 \div 4 - 1$		$5 \cdot 1000 - 600 + 6 \cdot 7$	
$2 \cdot 250 + 6 \cdot 4$		$26000 + 400 + 52$	
$1000 \div 4 \cdot 2 + 2 \cdot 23$		$40000 + 6000 + 40 + 2$	
$600 - 3 \cdot 5$		$50000 - 3000 + 580$	
$700 - 50 + 4$		$246380 - 5$	

# Order of Operations Fill In

Students evaluate the expressions or solve the problems. Next, students complete the puzzle by looking at the number of digits in the answer and the digits provided as clues.

### Student's Clues:

- 1) All the answers are whole positive numbers. No fractions or decimals.
- 2) Answers should be in ascending order. An answer that is not in ascending order is incorrect.
- 3) The four, five and six digit answers should be used to start completing the puzzle.

## Answer Key

$5 + 2 \cdot 5$	<b>15</b>	$5 \cdot 7 \cdot 20 + 15$	<b>715</b>
$2 + 80 \div 2$	<b>42</b>	$90 \div 3 + 2 \cdot 2 \cdot 5 \cdot 35 + 2 \cdot 2$	<b>734</b>
$2 \cdot 25 + 4 \cdot 10 + 1$	<b>91</b>	$1400 \div 2 + 144 \div 2$	<b>772</b>
$2 \cdot 2 \cdot 5 \cdot 5 + 3 \cdot 7$	<b>127</b>	$2000 - 1500 + 300 - 15$	<b>785</b>
$71 + 2 \cdot 100$	<b>271</b>	$3 \cdot 10 \cdot 10 \cdot 10 + 10 \cdot 10$	<b>3100</b>
$600 \div 2 + 240 \div 4 - 1$	<b>359</b>	$5 \cdot 1000 - 600 + 6 \cdot 7$	<b>4442</b>
$2 \cdot 250 + 6 \cdot 4$	<b>524</b>	$26000 + 400 + 52$	<b>26452</b>
$1000 \div 4 \cdot 2 + 2 \cdot 23$	<b>546</b>	$40000 + 6000 + 40 + 2$	<b>46042</b>
$600 - 3 \cdot 5$	<b>585</b>	$50000 - 3000 + 580$	<b>47580</b>
$700 - 50 + 4$	<b>654</b>	$246380 - 5$	<b>246375</b>

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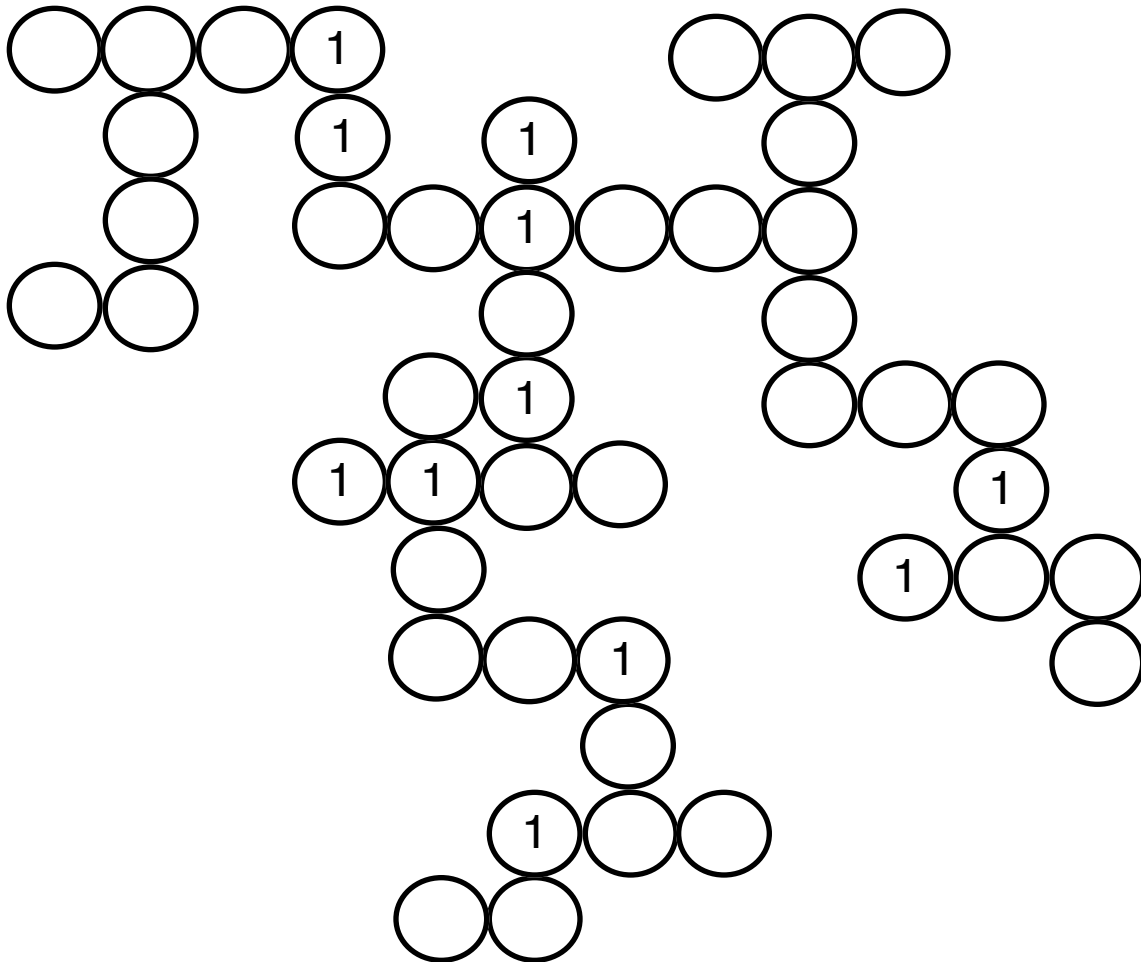
Date: \_\_\_\_\_

Period: \_\_\_\_\_

## Order of Operations Fill In

Evaluate the expressions.

Complete the puzzle using the number of digits in the answer and the digit five as your clues.



$1 + 2 \cdot 9$		$20 \cdot 50 - 5 \cdot 50 + 1$	
$2 \cdot 2 \cdot 2 \cdot 2 \cdot 2 - 1$		$72 + 2(50 + 3 \cdot 100)$	
$7 \cdot 10 - 7$		$30^2 - 8$	
$11 + 9^2$		$2000 - 1000 + 200 - 55$	
$3 \cdot 3 \cdot 11$		$10(170 + 130) + 4 \cdot 25 + 57$	
$200 - 25 \cdot 4 + 6$		$4000 - 70 + 2$	
$2 \cdot 7 + 200 \div 2$		$5 \cdot 10 \cdot 10 \cdot 10 + 3 \cdot 10 \cdot 10 + 1$	
$2^2 \cdot 5^2 + 29$		$11000 + 50 \cdot 10 + 2 \cdot 7$	
$500 - 300 - 2$		$80 \cdot 900 + 400 - 30 + 8$	
$2 \cdot 3 \cdot 5 \cdot 7$		$451000 + 73$	

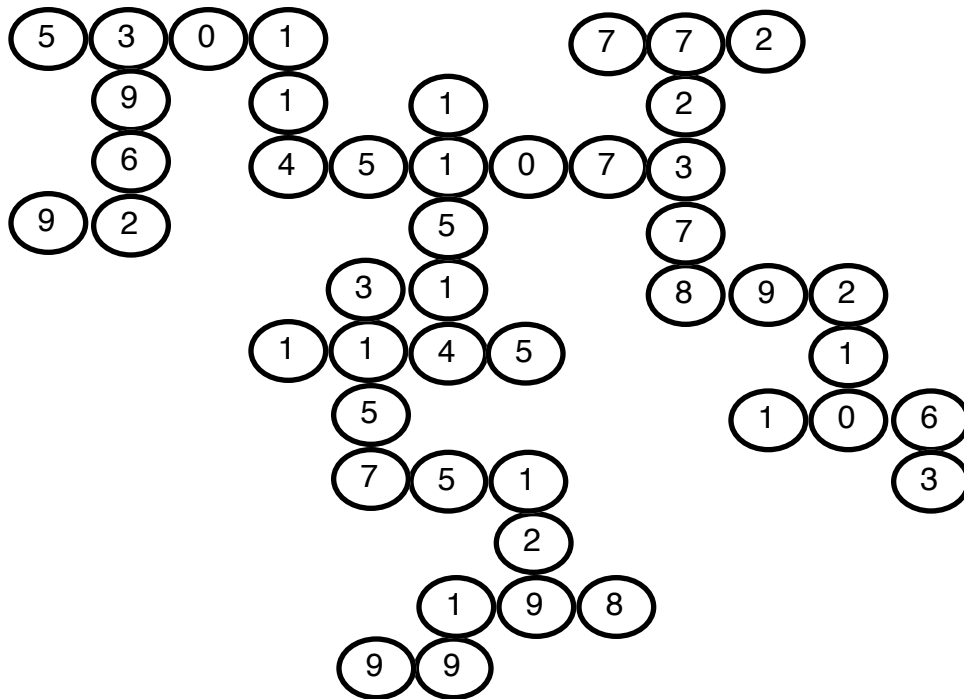
# Order of Operations Fill In

Students evaluate the expressions or solve the problems. Next, students complete the puzzle by looking at the number of digits in the answer and the digits provided as clues.

### Student's Clues:

- 1) All the answers are whole positive numbers. No fractions or decimals.
- 2) Answers should be in ascending order. An answer that is not in ascending order is incorrect.
- 3) The four, five and six digit answers should be used to start completing the puzzle.

## Answer Key



$1 + 2 \cdot 9$	<b>19</b>	$20 \cdot 50 - 5 \cdot 50 + 1$	<b>751</b>
$2 \cdot 2 \cdot 2 \cdot 2 \cdot 2 - 1$	<b>31</b>	$72 + 2(50 + 3 \cdot 100)$	<b>772</b>
$7 \cdot 10 - 7$	<b>63</b>	$30^2 - 8$	<b>892</b>
$11 + 9^2$	<b>92</b>	$2000 - 1000 + 200 - 55$	<b>1145</b>
$3 \cdot 3 \cdot 11$	<b>99</b>	$10(170 + 130) + 4 \cdot 25 + 57$	<b>3157</b>
$200 - 25 \cdot 4 + 6$	<b>106</b>	$4000 - 70 + 2$	<b>3962</b>
$2 \cdot 7 + 200 \div 2$	<b>114</b>	$5 \cdot 10 \cdot 10 \cdot 10 + 3 \cdot 10 \cdot 10 + 1$	<b>5301</b>
$2^2 \cdot 5^2 + 29$	<b>129</b>	$11000 + 50 \cdot 10 + 2 \cdot 7$	<b>11514</b>
$500 - 300 - 2$	<b>198</b>	$80 \cdot 900 + 400 - 30 + 8$	<b>72378</b>
$2 \cdot 3 \cdot 5 \cdot 7$	<b>210</b>	$451000 + 73$	<b>451073</b>

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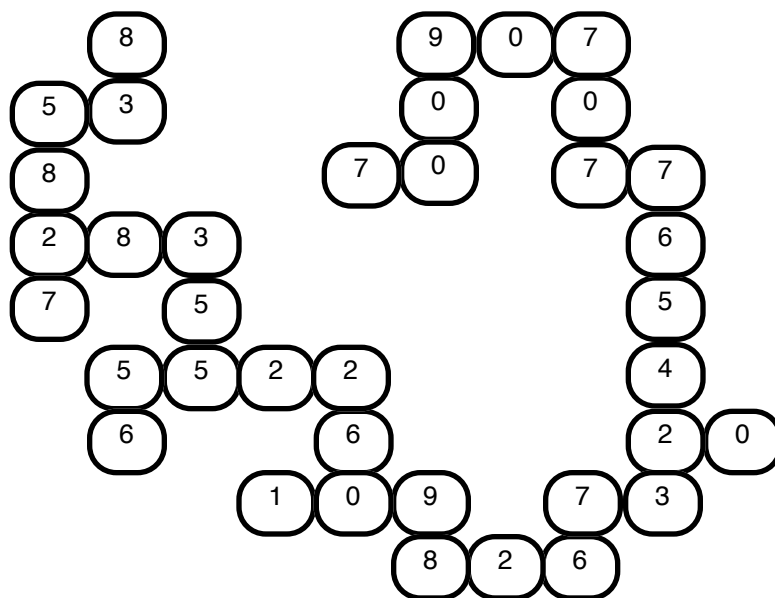
## Substitution Fill In

Students evaluate the expressions or solve the problems. Next, students complete the puzzle by looking at the number of digits in the answer and the digits provided as clues.

### Student's Clues:

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- 2) Answers should be in ascending order. An answer that is not in ascending order is incorrect.
- 3) The four, five and six digit answers should be used to start completing the puzzle.

### Answer Key



$4(x - 3)$ if $x = 8$	20	$2600 \div x$ if $x = 10$	260
$x^2 + 4$ if $x = 7$	53	$1000 - 4x + 83$ if $x = 200$	283
$60 - x$ if $x = 4$	56	$7(2x + 10) + 5$ if $x = 20$	355
$3x + 5y$ if $x = 10, y = 8$	70	$7(110 - x^2)$ if $x = 3$	707
$730 \div x$ if $x = 10$	73	$8 \cdot 10^x + 13x$ if $x = 2$	826
$5(a + b) + a$ if $a = 6, b = 8$	76	$10^a - 10^b$ if $a = 3, b = 2$	900
$(x + 2)(y - 3)$ if $x = 9, y = 10$	77	$30(4x + 2) + x$ if $x = 7$	907
$10^x - 17$ if $x = 2$	83	$55x + 22$ if $x = 100$	5522
$x^2 + y^2 - 2$ if $x = 8, y = 6$	98	$5x^3 + 8x^2 + 2x^1 + 7$ if $x = 10$	5827
$10^x + 3^x$ if $x = 2$	109	$765000 + x$ if $x = 423$	765423

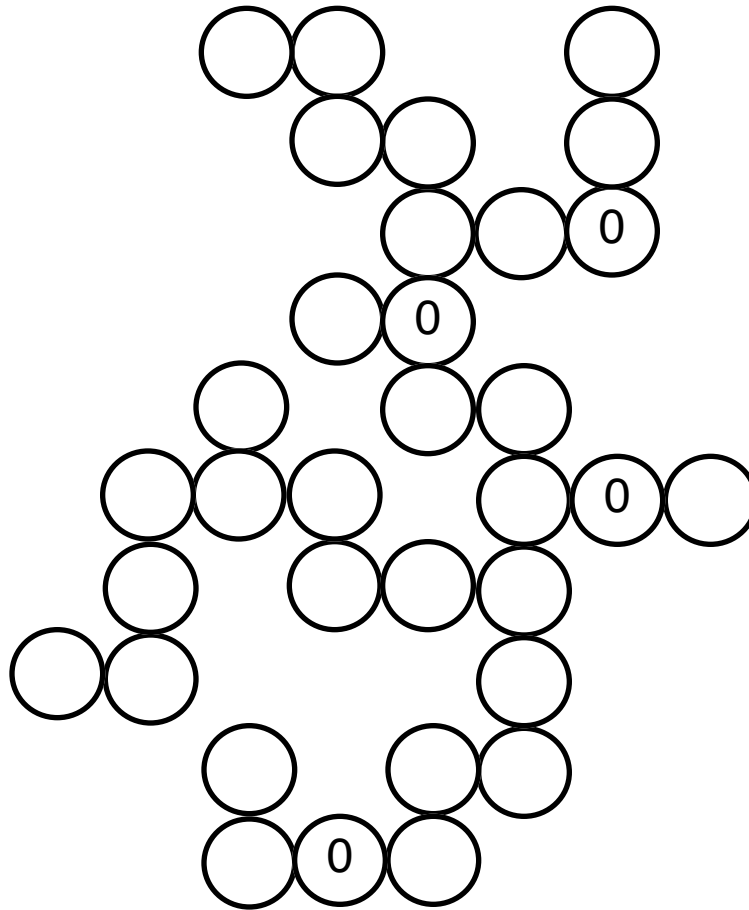
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## One Step Equations Fill In



$4x = 88$		$2 + x = 100$	
$70 \div x = 2$		$2600 \div x = 10$	
$30 = x - 9$		$4050 = 10x$	
$4 + x = 50$		$800 = x + 25$	
$25 = x \div 2$		$x - 80 = 700$	
$60 - x = 6$		$x \div 5 = 181$	
$112 = 2x$		$900 = x - 12$	
$67 \div x = 1$		$322 = x \div 3$	
$x \div 11 = 7$		$3 + x = 6710$	
$100 - x = 14$		$79550 - x = 1$	

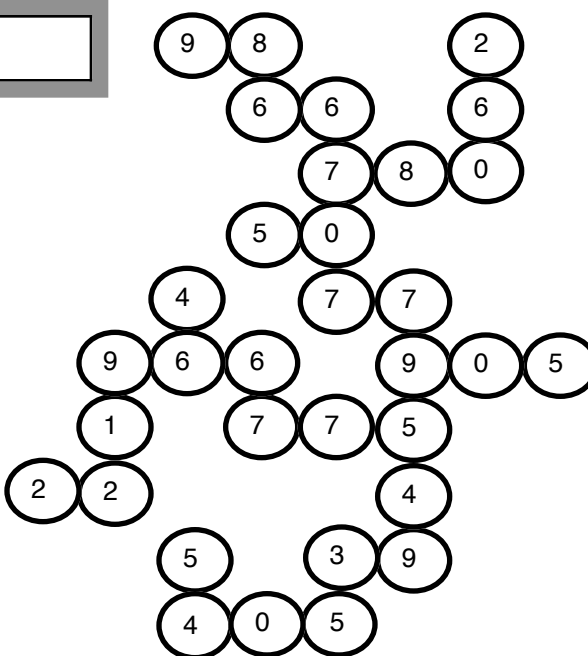
# One Step Equations Fill In

Students evaluate the expressions or solve the problems. Next, students complete the puzzle by looking at the number of digits in the answer and the digits provided as clues.

### Student's Clues:

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## Answer Key



$4x = 88$	<b>2 2</b>	$2 + x = 100$	<b>9 8</b>
$70 \div x = 2$	<b>3 5</b>	$2600 \div x = 10$	<b>2 6 0</b>
$30 = x - 9$	<b>3 9</b>	$4050 = 10x$	<b>4 0 5</b>
$4 + x = 50$	<b>4 6</b>	$800 = x + 25$	<b>7 7 5</b>
$25 = x \div 2$	<b>5 0</b>	$x - 80 = 700$	<b>7 8 0</b>
$60 - x = 6$	<b>5 4</b>	$x \div 5 = 181$	<b>9 0 5</b>
$112 = 2x$	<b>6 6</b>	$900 = x - 12$	<b>9 1 2</b>
$67 \div x = 1$	<b>6 7</b>	$322 = x \div 3$	<b>9 6 6</b>
$x \div 11 = 7$	<b>7 7</b>	$3 + x = 6710$	<b>6 7 0 7</b>
$100 - x = 14$	<b>8 6</b>	$79550 - x = 1$	<b>7 9 5 4 9</b>

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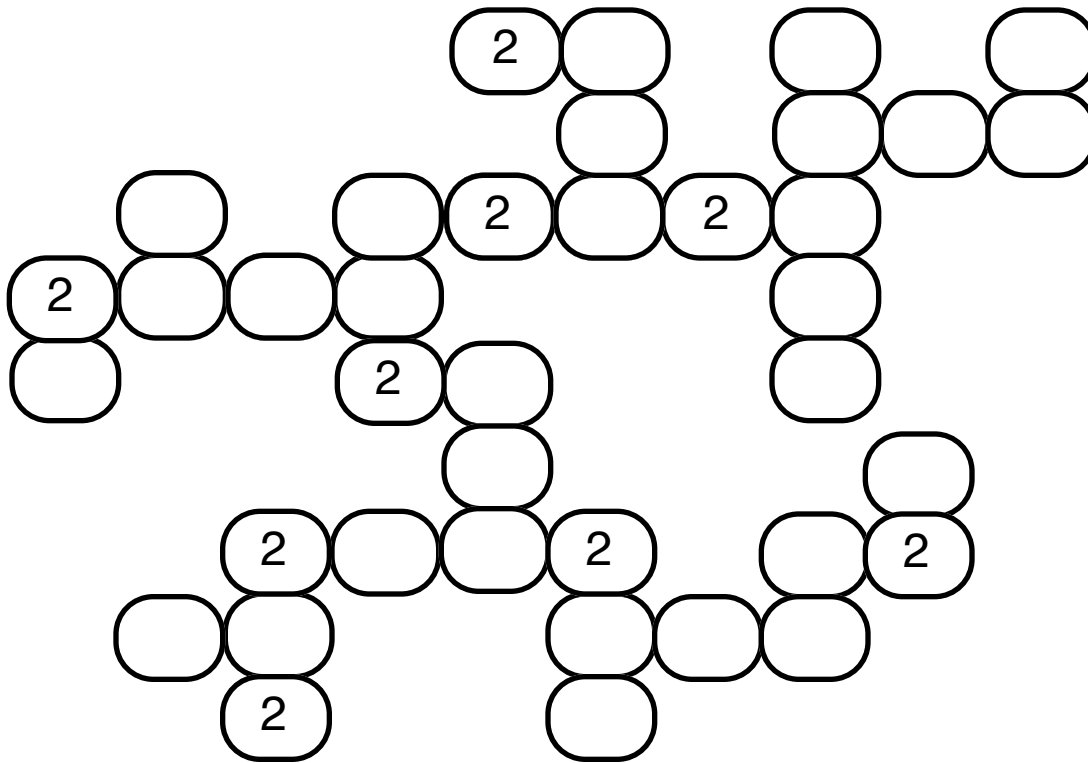
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## Solving Equations Fill In

Solve the following equations.



$20 = 2x$		$x \div 10 = 15$	
$5(x - 24) = 5$		$4x = 920$	
$26 - x = 0$		$131 = x \div 2$	
$1 = 29 \div x$		$1500 = 3(x + 200)$	
$x - 22 = 20$		$555 \div x = 1$	
$75 = x + 15$		$813 = x + 213$	
$100 - x = 38$		$x - 2311 = 41$	
$2(x + 8) = 180$		$24000 \div x = 10$	
$10^2 + x = 196$		$12000 = x - 21$	
$10x = 1020$		$x + 0 = 71100$	

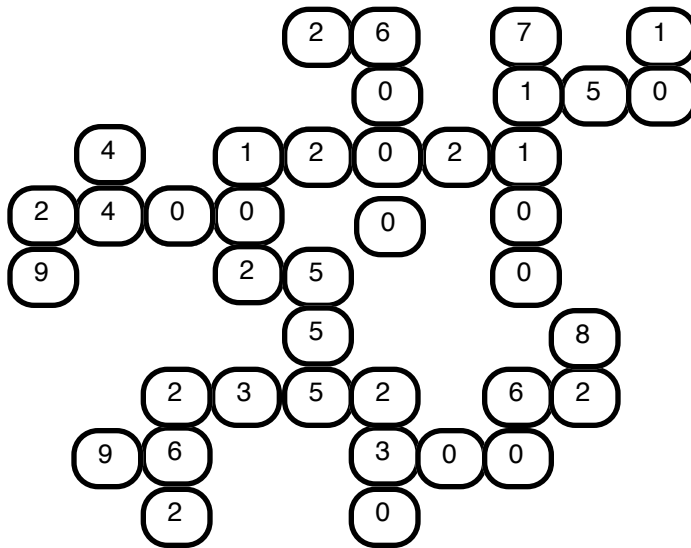
# Solving Equations Fill In

Students evaluate the expressions or solve the problems. Next, students complete the puzzle by looking at the number of digits in the answer and the digits provided as clues.

**Student's Clues:**

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## Answer Key



$20 = 2x$	10	$x \div 10 = 15$	150
$5(x - 24) = 5$	25	$4x = 920$	230
$26 - x = 0$	26	$131 = x \div 2$	262
$1 = 29 \div x$	29	$1500 = 3(x + 200)$	300
$x - 22 = 20$	44	$555 \div x = 1$	555
$75 = x + 15$	60	$813 = x + 213$	600
$100 - x = 38$	62	$x - 2311 = 41$	2352
$2(x + 8) = 180$	82	$24000 \div x = 10$	2400
$10^2 + x = 196$	96	$12000 = x - 21$	12021
$10x = 1020$	102	$x + 0 = 71100$	71100

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