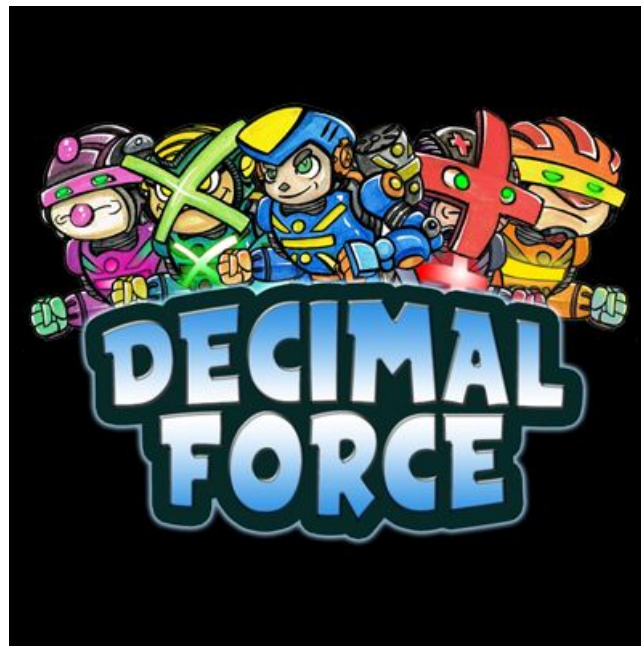


Decimal Force Instructions



Overworld:

Click on an unlocked city to begin a quest.

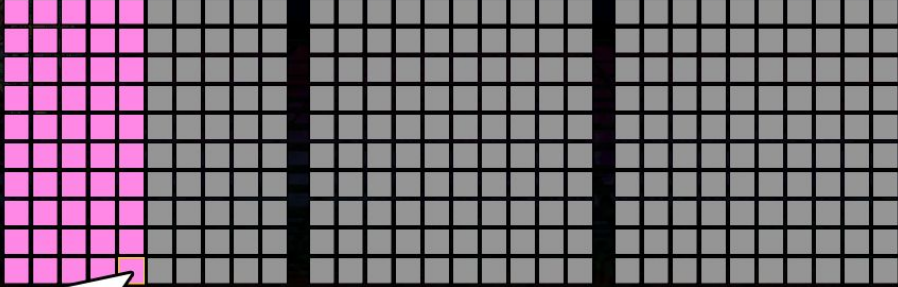


Addition Model Minigame:

Click on a grid space or use the arrow keys to move over the grid to shade the correct amounts. Then click the submit button or press enter to continue.

0.5 + 0.4

Step 1: Add 0.5 to the model.



Clicking here will shade in all areas from the top left down. You can also use the arrow keys to move the shade area.

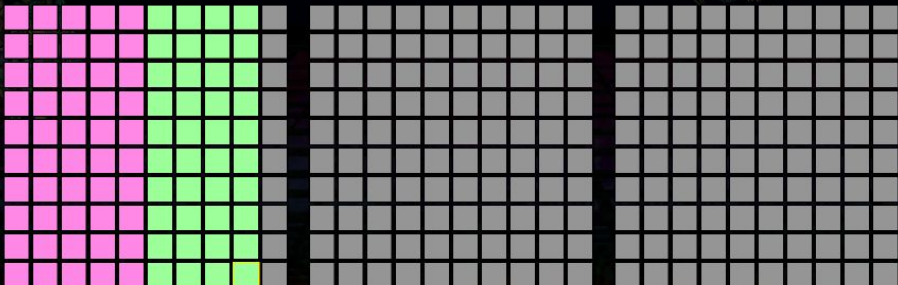
Submit

Press the submit button or the enter key to go to the next step.

To answer the question, click on the number buttons or use the number keys to provide the answer. You can click on a position if you need to change it. Press the submit button or press enter to confirm your answer. You can use a 0 to fill in empty places.

Final Step: Solve!

0.5 + 0.4 = ?



Enter the answer below.

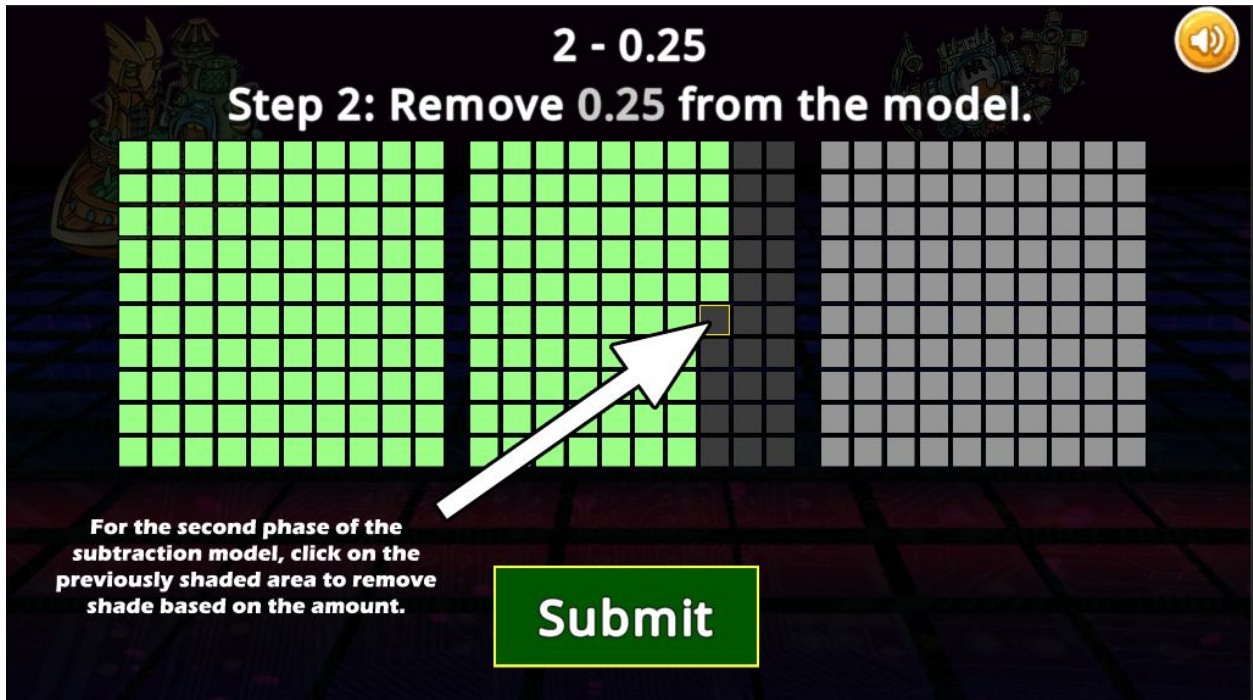
0	1	2	3	4
5	6	7	8	9

0 . 9 0

Submit

Subtraction Model Minigame:

Click on a grid space or use the arrow keys to move over the grid to shade the correct amount. Then click the submit button or press enter to continue. Click on a grid space from the shaded area or use the arrow keys to remove the correct amount from the grid.



The screenshot shows a game interface for a subtraction model. At the top, the equation $2 - 0.25$ is displayed. Below it, the instruction "Step 2: Remove 0.25 from the model." is shown. The main area contains three 10x10 grids. The first two grids are shaded green, representing the number 2. The third grid is shaded gray, representing the number 0.25. A white arrow points to a small square in the second grid, indicating the amount to be removed. A green "Submit" button is located at the bottom center. A speaker icon is in the top right corner.

2 - 0.25

Step 2: Remove 0.25 from the model.

For the second phase of the subtraction model, click on the previously shaded area to remove shade based on the amount.

Submit

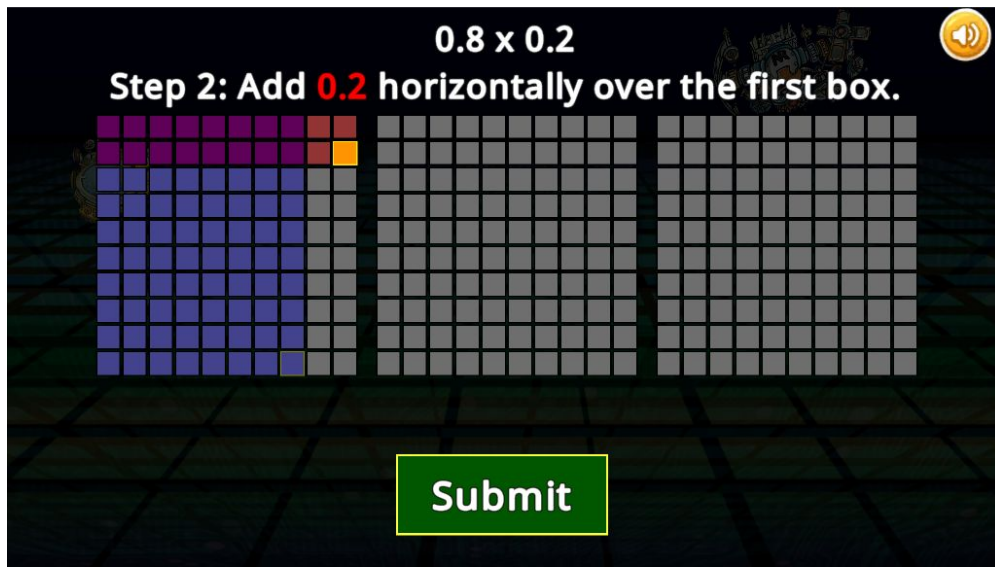
To answer the question, click on the number buttons or use the number keys to provide the answer. You can click on a position if you need to change it. Press the submit button or press enter to confirm your answer. You can use a 0 to fill in empty places.

Multiplication Model Minigame:

Click on a grid space or use the arrow keys to move over the grid to shade the correct amounts. Click the submit button or press enter to continue. Then click on a grid space or use the arrow keys to shade a horizontal area, and click submit or press the enter key to continue.

0.8 x 0.2

Step 2: Add 0.2 horizontally over the first box.

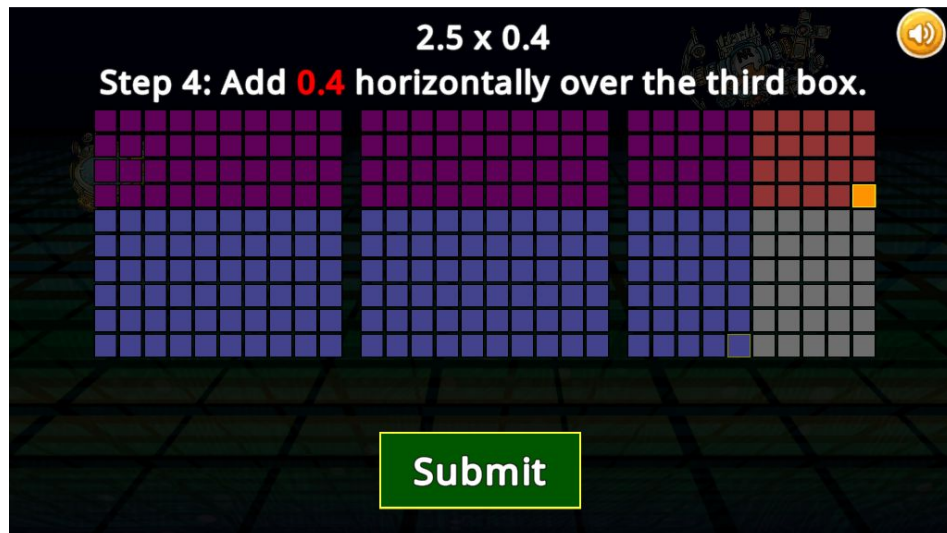


Submit

For problems with a factor greater than one, there will be steps to apply the second factor across multiple grids.

2.5 x 0.4

Step 4: Add 0.4 horizontally over the third box.



Submit

To answer the question, click on the number buttons or use the number keys to provide the answer. You can click on a position if you need to change it. Press the submit button or press enter to confirm your answer. You can use a 0 to fill in empty places.

Addition or Subtraction Placement Minigame:

To battle the robot agent, use the arrow buttons or the arrow keys on the keyboard to correctly line up the problem so the decimals align. Press the enter key or submit button to continue.

Use the arrow keys to align the top numbers and press enter to continue.

Use the arrow keys or arrow buttons to place the top part of the problem in the correct position and click the submit button or enter key..

Decimal Prime

BusinessBot

850

+ 460

1310

Align the top row to the proper place.

Submit

Finally, set the decimal place for the answer in the correct spot. Press the enter key or submit button to continue.

Use the arrow keys to align the decimal place and press enter to continue.

Decimal Prime

BusinessBot

850

+ 460

1310

Set the correct decimal position for the answer.

Submit

Multiplication Placement Minigame

Set the decimal place for the answer in the correct spot. Press the enter key or submit button to continue.

The screenshot shows a multiplication problem: $3.5 \times 2.3 = 80.5$. The decimal point in the answer '80.5' is highlighted with a green dot. A white arrow points to this dot from the text 'Use arrow buttons or arrow keys to line up the decimal place to the correct position.' The interface includes a 'Submit' button and left/right arrow buttons. On the left is the character 'Decimal Prime' and on the right is 'FixBot'. A green progress bar is visible above each character's name. A speaker icon is in the top right corner.

Use the arrow keys to align the decimal place and press enter to continue.

Use arrow buttons or arrow keys to line up the decimal place to the correct position.

Decimal Prime

3.5

X 2.3

80.5

Set the correct decimal position for the answer.

Submit

FixBot

Addition, Subtraction or Multiplication Problem Solving Minigame:

To solve the problems, enter the correct numbers for each column using your number keys. Use zeros if the column needs to be empty.

1

5.5

1.5

Decimal Prime

X

Decimal Multiplier

2 7 5

5 5

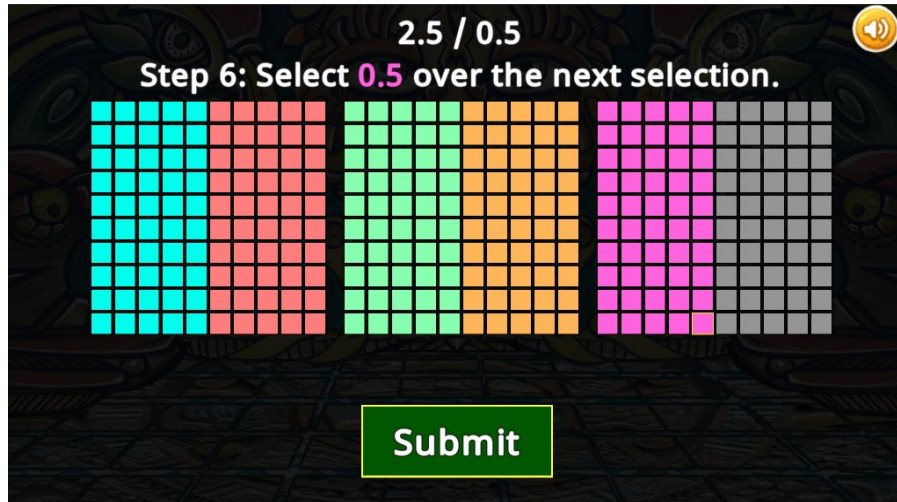
8.25

Use the arrow keys to adjust the decimal places and press enter to continue.

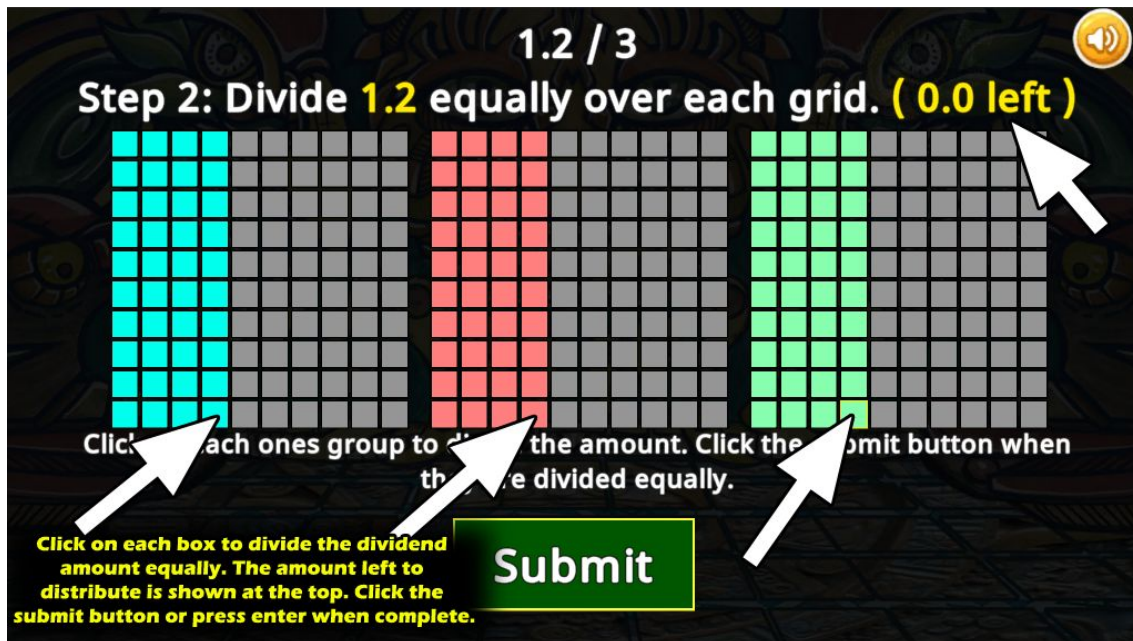
After you have answered the problem, use the arrow keys or the arrow buttons to place the answer's decimal. Remember to align with the problem's decimals.

Division Model Minigame:

For divisors smaller than one, first graph the dividend amount similar to addition or subtraction. Press enter or click the submit button to continue. Next, graph the divisor amount on top of the highlighted dividend amount. Click submit or press the enter key. Do this until all of the dividend amount is covered. The answer will be the number of groups created.

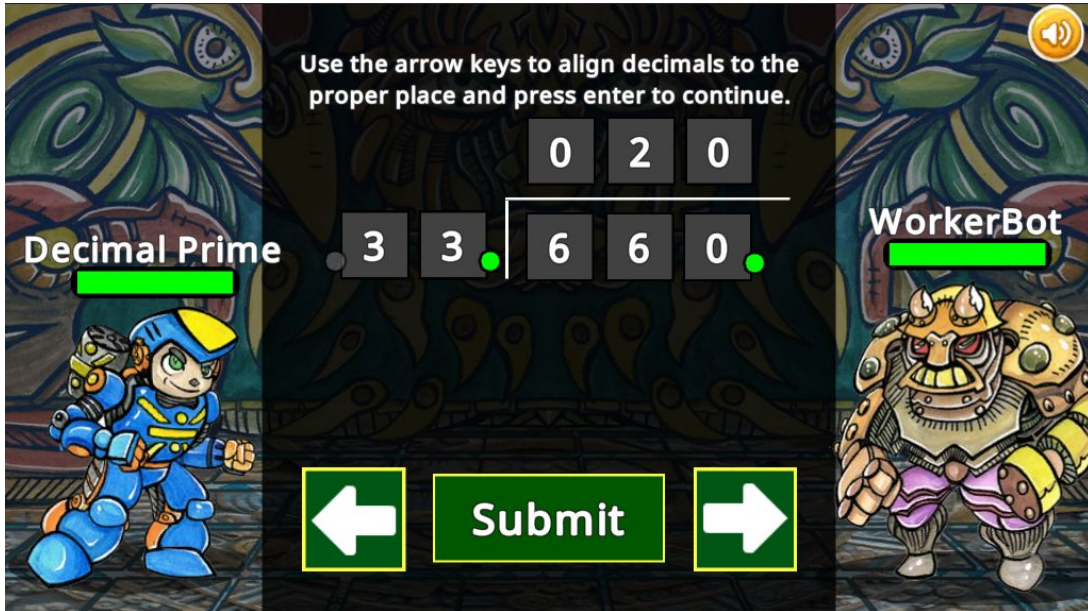


For situations where the divisor is larger than one, you will click on each ones container to move a portion of the dividend amount to that graph. The goal is to equally distribute the dividend amount across the graphs. Clicking on another graph will fill up the graph to the target area. A counter will tell you how much dividend is left to distribute. The final answer will be the number in a single ones container that is highlighted.

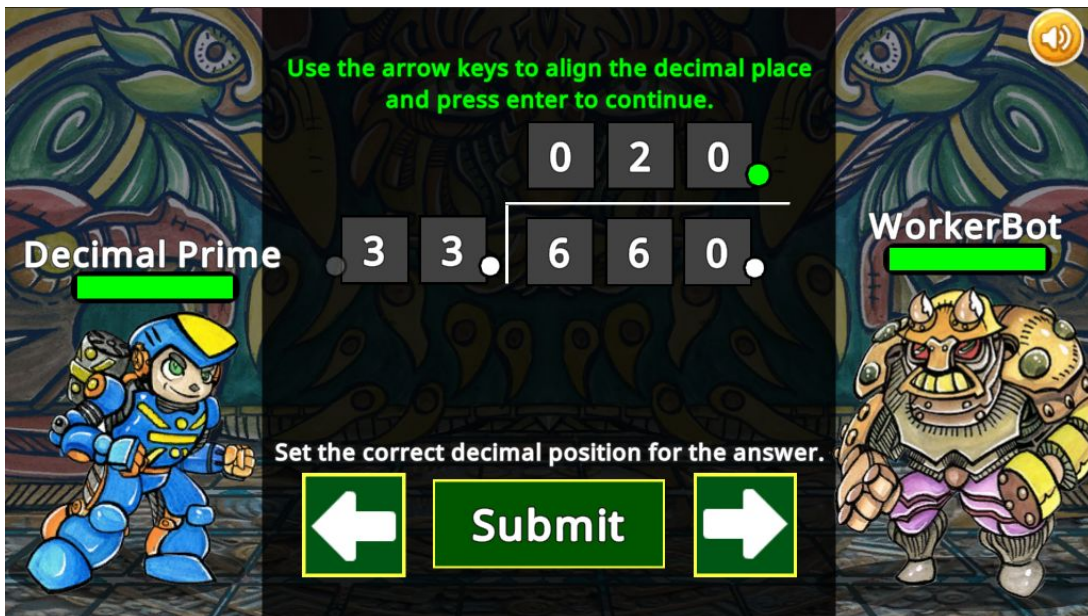


Division Decimal Placement Minigame:

Use the arrow keys or arrow buttons to align the correct decimal place for the divisor and dividend. Press the submit button or enter key to continue.

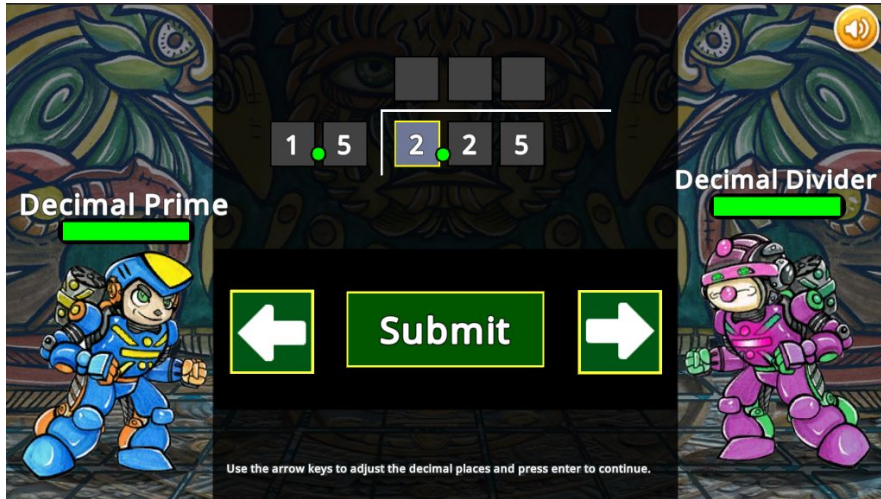


Next, we will use the arrow keys or arrow buttons to move the answer's decimal in place. Press the submit button or enter key to continue.

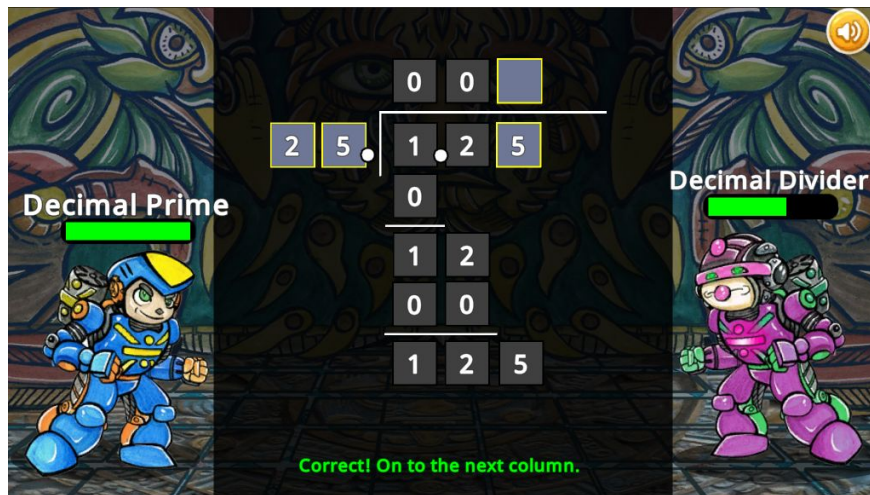


Division Problem Solving Minigame:

To solve the problems, first set the correct decimal placement for the divisor and dividend and press enter.



Then, enter the correct numbers for each column using your number keys. Use zeros if the column needs to be empty. Work your way through each step of the division problem.



Use the arrow keys or arrow buttons to place the answer's decimal place, then press enter.

Decimal Prime

Decimal Divider

0 0 5

2 5 . 1 2 5

0

← Submit →

1 2 3

Use the arrow keys to adjust the decimal places and press enter to continue.