

NOPREP

DECIMAL

PLACE VALUE

Solve & Draw

PREVIEW FILE

1) 2.782

- ☐ If the value of the underlined digit is 0.04, draw an alien bird on the tree.
- ☐ If the value of the underlined digit is four tenths, draw 2 planers in the sky.

2) 1,310.0105

- ☐ If the value of the underlined digit is one hundredths, draw an alien fish in the water.
- ☐ If the value of the underlined digit is 0.001, draw an alien ship in the sky.

3) 0.1667

- ☐ If the value of the underlined digit is 7 thousandths, draw an alien standing by the tree.
- ☐ If the value of the underlined digit is 0.0007, draw an alien shark in the water.

4) 7.3340

- ☐ If the value of the underlined digit is 0.3, draw an astronaut by the tree.
- ☐ If the value of the underlined digit is 33 tenths, draw an alien dog chasing the astronaut dog.

5) 560.0611

- ☐ If the value of the underlined digit is 0.06, draw a dog bone in the astronaut cart.
- ☐ If the value of the underlined digit is 9 thousandths, draw an alien boat in the water.

1) 2.9, 2.7, 2.6

- ☐ If 2.7 is the greatest number, draw glasses on the teacher.
- ☐ If 2.9 is the smallest number, draw another set of eyes on the original student.

2) 0.45, 0.71, 0.39

- ☐ If 0.39 is the smallest number, draw a plant in the circle on the board.
- ☐ If 0.45 is the greatest number, draw fangs on the original student.

3) 0.3, 0.1, 0.9

- ☐ If 0.9 is the greatest number, draw fuzzy eyebrows on the teacher.
- ☐ If 0.3 is the smallest number, draw an alien clock on the wall above the teacher.

4) 0.3, 0.1, 0.9

- ☐ If 0.9 is the greatest number, draw glasses on the original student.
- ☐ If 0.3 is the smallest number, draw another set of eyes on the original student.

5) 2.22, 3.16, 2.77

- ☐ If 2.7 is the greatest number, draw an alien plant seed in the square on the whiteboard.
- ☐ If 2.2 is the smallest number, draw another set of eyes on the original student.

6) 5.18, 6.74, 5.23

- ☐ If 5.18 is the smallest number, draw the teacher.
- ☐ If 6.74 is the greatest number, draw a spider hanging from the ceiling.

ACTIVATED EDUCATION

DECIMAL PLACE VALUE

Solve & Draw

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PREVIEW FILE

DECIMAL PLACE VALUE

Solve & Draw

DIRECTIONS

Decimal Place Value Solve and Draw sheets are an easy, no-prep way to make review work or practice more engaging. These are also designed to provide practice of reading carefully in math and following directions.

Students complete the decimal problems and add to the drawing based on their answers. To keep them guessing, each problem may have one correct drawing prompt, two, or none. Each page has an average of 7 responses that require drawing. Drawing is no-prep because it can be done with the student's normal writing utensil (pen or pencil). You may choose to allow colored pencils, crayons, or markers but they are not required. This works well as a homework option for families who may not have those supplies to offer.

Drawing prompts require a student to use multiple skills:

- Decimal place value understanding
- Rounding
- Reading

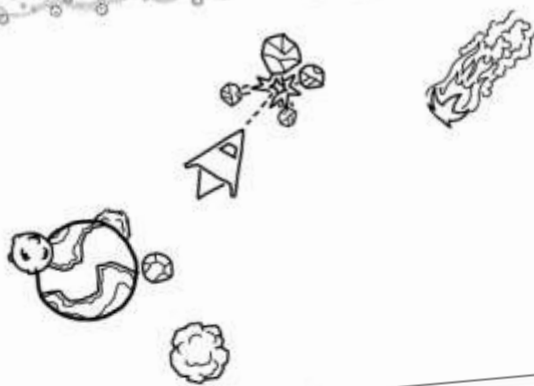
An optional challenge page is included that can be copied on the back of the worksheet – this gives students an extension opportunity by asking them to create a math equation that fits one of the incorrect drawing prompts or to create a math equation and their own drawing prompts.



PREVIEW FILE

Directions: Solve the problems and add to the drawing

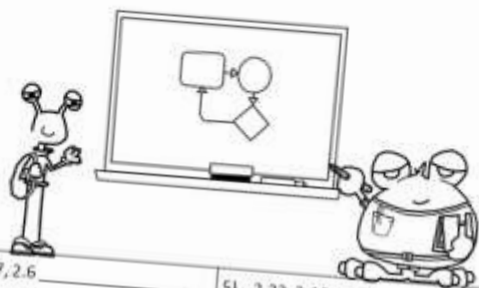
Name _____



- | | |
|---|--|
| 1) Six and five hundredths
☐ If the number in digits is 6.500, draw another meteor for the spaceship to shoot.
☐ If the number in digits is 8.05, draw another comet coming down. | 5) Fifty and thirty five hundred-thousandths
☐ If the number in digits is 50.35000, draw a fire burning on one of the meteors.
☐ If the number in digits is 50.00035, draw a rocket shooting towards a meteor. |
| 2) Three hundred fifty-nine ten- thousandths
☐ If the number in digits is 0.0359, draw planet Earth in the bottom right corner.
☐ If the number in digits is 0.359, draw the moon in the upper left corner. | 6) Ten- thousandths
☐ If the number in digits is 0.0001, draw an astronaut outside a spaceship.
☐ If the number in digits is 10.001, draw a one-eyed alien throwing meteors. |
| 3) Six thousand and forty-seven hundredths
☐ If the number in digits is 6,000.047, draw another spaceship.
☐ If the number in digits is 6,000.407, draw a meteor by the spaceship. | 7) One and thirty-eight hundredths
☐ If the number in digits is 1.038, draw an alien with tentacles riding on the largest meteor.
☐ If the number in digits is 1.38, draw an alien spider climbing on a spaceship. |
| | 8) Two hundred four thousandths
☐ If the number in digits is 0.2004, draw a |

Directions: Order the decimals from least to greatest, then add to the drawing

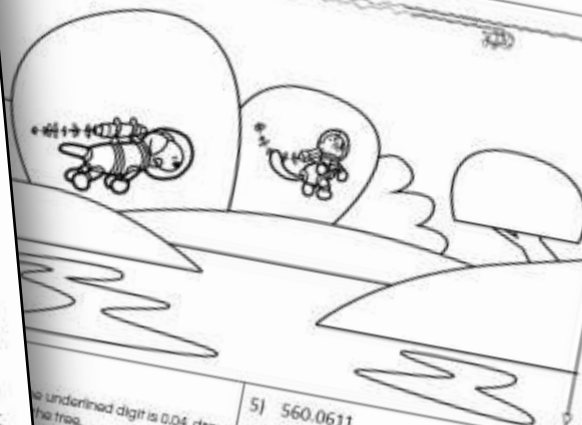
Name _____



- | | |
|---|---|
| 1) 2.9, 2.7, 2.6
☐ If 2.7 is the greatest number, draw glasses on the teacher.
☐ If 2.6 is the smallest number, draw a pencil in the student's left hand. | 5) 2.22, 3.16, 2.77
☐ If 2.7 is the greatest number, draw an alien plant seed in the square on the whiteboard.
☐ If 2.2 is the smallest number, draw another set of eyes on the original student. |
| 2) 0.97, 1.1, 1.3
☐ If 0.97 is the smallest number, draw another meteor beside the original student.
☐ If the number in digits is 1.3, draw an alien on the whiteboard. | 6) 4.95, 4.39, 3.99
☐ If 3.99 is the greatest number, draw another set of arms on the teacher.
☐ If 4.39 is the smallest number, draw another set of arms on the original student. |
| 4) 0.3, 0.1, 0.9
☐ If 0.9 is the greatest number, draw eyebrows on the teacher.
☐ If 0.3 is the smallest number, draw an alien clock on the wall above the teacher. | 7) 7.5, 6.9, 7.8
☐ If 6.9 is the greatest number, draw glasses on the original student.
☐ If 7.5 is the smallest number, draw a plant on the board. |

Directions: Solve the problems and add to the drawing

Name _____



- | | |
|--|---|
| 4) The underlined digit is 0.04, draw the tree.
The underlined digit is four meteors in the sky. | 5) 560.0611
☐ If the value of the underlined digit is 0.0011, draw stripes on the hill behind the cat.
☐ If the value of the underlined digit is one ten-thousandths, draw a two-headed snake. |
| 3) The underlined digit is one (alien fish in the water).
The underlined digit is 0.001, draw the sky. | 6) 0.45045
☐ If the value of the underlined digit is zero, draw a double rainbow in the sky.
☐ If the value of the underlined digit is fifty thousandths, draw another astronaut cat. |
| 2) The underlined digit is 7 (alien standing by the).
The underlined digit is 0.0007, draw the sky. | 7) 40,553.02
☐ If the value of the underlined digit is 0.02, draw a pair of eyes peeking out of the water.
☐ If the value of the underlined digit is two tenths, draw alien lightning in the sky. |
| 1) The underlined digit is 0.3, draw the sky.
The underlined digit is 33 tenths, draw an astronaut dog. | 8) 1.03091
☐ If the value of the underlined digit is 0.0009, draw a dog bone in the sky.
☐ If the value of the underlined digit is one ten-thousandths, draw a meteor. |

Directions: If the number sentences are true or false, add to the drawing

Name _____



- | | |
|---|--|
| 1) $5.075 < 5.0750$
☐ If the number sentence is true, draw a spaceship by the astronauts.
☐ If the number sentence is false and the numbers are equal, draw another ring around the planet. | 5) $6.219 = 6.129$
☐ If the number sentence is true, draw a satellite.
☐ If the number sentence is false and the number on the right is greater, draw a rocket taking off from a planet. |
| 2) $0.0755 = 0.755$
☐ If the number sentence is true, draw a meteor near the planet.
☐ If the number sentence is false and the numbers are not equal, draw another planet. | 6) $8.9001 < 8.9010$
☐ If the number sentence is true, draw a star.
☐ If the number sentence is false and the numbers are equal, draw storm clouds around a planet. |
| 3) $1.184 > 1.1804$
☐ If the number sentence is true, draw an alien standing on a planet.
☐ If the number sentence is false, draw a small Earth in the background. | 7) $0.0031 > 0.0033$
☐ If the number sentence is true, draw a black hole.
☐ If the number sentence is false, draw the moon. |
| 4) $1.184 > 1.1804$
☐ If the number sentence is true, draw another astronaut.
☐ If the number sentence is false and the numbers are equal, draw the sun. | 8) $44.0450 = 44.04500$
☐ If the number sentence is true, draw a space rover on a planet.
☐ If the number sentence is false, draw a flag on a planet. |

PREVIEW FILE

Name: _____

Directions: Round the decimals and add to the drawing.

1) Round 41.3955 to the nearest tenth. ☐ If the answer has a 3 in the tenths place, draw a basketball in the hand of one alien. ☐ If the answer has a 4 in the tenths place, draw a soda pop bottle in the hand of one alien.	5) Round 0.04924 to the nearest ten-thousandths. ☐ If the answer has a 2 in the ten-thousandths place, draw an alien riding a BMX bike. ☐ If the answer has a 1 in the ten-thousandths place, draw an alien snowboarding on a hill.
2) Round 1.304075 to the nearest hundredth. ☐ If the answer has a 7 in the hundredths place, draw another skateboarder. ☐ If the answer has a 6 in the hundredths place, draw an alien spaceship in the sky.	6) Round 8.99571 to the nearest hundredth. ☐ If the answer has a 9 in the hundredths place, draw an alien on a scooter. ☐ If the answer has an 8 in the hundredths place, draw eyes on the small rocks on the right.
3) Round 4.18336 to the nearest thousandths. ☐ If the answer has a 2 in the thousandths place, draw an astronaut in the sky. ☐ If the answer has a 3 in the thousandths place, draw an alien tree.	7) Round 22.076 to the nearest tenth. ☐ If the answer has an 8 in the tenths place, draw two more arms on an original alien. ☐ If the answer has a 5 in the tenths place, draw a UFO in the sky.

Name: _____

Directions: Order the decimals from least to greatest, then add to the drawing.

3) 0.135, 0.14 ☐ If the greatest number, draw another skateboarder on the plateau. ☐ If the smallest number, draw another arms on the original alien.	5) 0.68, 0.068, 0.0608 ☐ If 0.0608 is the smallest number, draw 4 stars in the sky. ☐ If 0.68 is the greatest number, draw an alien dog on a skateboard.
6) 6.2, 6.202 ☐ If the smallest number, draw 3 moons in the sky. ☐ If the greatest number is 6.202, draw a UFO in the sky.	6) 3.2, 3.02, 3.22 ☐ If 3.2 is the smallest number, draw an alien lizard climbing up one of the buttes. ☐ If 3.22 is the greatest number, draw a skateboarder coming down the side of a butte.
7) 0.07, 0.7, 0.007 ☐ If 0.007 is the greatest number, draw a rock climbing alien on the side of a butte. ☐ If 0.7 is the smallest number, draw goo oozing down the side of one of the buttes.	8) 0.411, 0.401, 0.41 ☐ If the greatest number, draw a UFO in the sky. ☐ If the smallest number, draw two arms on the original alien.

Name: _____

Directions: Solve the problems and add to the drawing.

1) 20,563.033 ☐ If the value of the underlined digit is 0.33, draw a mouse in the hole above the cat. ☐ If the value of the underlined digit is three hundredths, draw an alien in a hole.	5) 0.98, 0.089, 0.889 ☐ If 0.089 is the smallest number, draw a UFO in the sky. ☐ If 0.889 is the greatest number, draw a UFO in the sky.
2) $0.758 > 0.7801$ ☐ If the number sentence is false, draw three holes in the ground. ☐ If the number sentence is true, draw an alien out of one of the holes in the sky.	6) Round 0.7554 to the nearest hundredths. ☐ If the answer has a 5 in the hundredths place, draw flowers on the ground. ☐ If the answer has a 4 in the hundredths place, draw a rocket taking off.
3) Round 3.1783201 to the nearest thousandths. ☐ If the value of the underlined digit is 0.001, draw an alien lizard climbing a rock. ☐ If the value of the underlined digit is 0.002, draw an alien dog on a skateboard.	7) 6.1783201 ☐ If the number sentence is true, draw a UFO in the sky. ☐ If the number sentence is false, draw a UFO in the sky.
4) 0.04, 0.045 ☐ If 0.04 is the greatest number, draw a UFO in the sky. ☐ If 0.045 is the smallest number, draw a UFO in the sky.	8) $32.1 < 32.101$ ☐ If the number sentence is true, draw a UFO in the sky. ☐ If the number sentence is false, draw a UFO in the sky.

Name: _____

Directions: Determine if the number sentences are true or false and add to the drawing.

1) Round 0.226767 to the nearest thousandths. ☐ If the answer has a 7 in the thousandths place, draw another astronaut. ☐ If the answer has a 6 in the thousandths place, draw a planet in the sky.	5) 376.936832 ☐ If the underlined digit is in the thousandths place, draw a huge bug crawling up a rock. ☐ If the value of the underlined digit is 0.006, draw a UFO in the sky.
2) 8.901, 8.9001, 8.909 ☐ If the greatest number is 8.9001, draw a space shuttle. ☐ If the smallest number is 8.901, draw a comet crashing into the ground.	6) Five hundred fifty-nine ten-thousandths ☐ If the number in digits is 0.0559, draw a flying alien by the top astronaut. ☐ If the number in digits is 500.0059, draw a space rover exploring the rocks.
3) Three and forty-seven hundred-thousandths ☐ If the number in digits is 3.4700, draw vines growing up the rocks. ☐ If the number in digits is 3.00047, draw a small Earth in the background of the sky.	7) $0.0081 > 0.00818$ ☐ If the number sentence is true, draw a black hole in the sky. ☐ If the number sentence is false, draw a star in the sky.
4) 0.045 = 0.0450 ☐ If the number sentence is true, draw another rock formation. ☐ If the number sentence is false and 0.0450 is greater, draw an alien on top of a rock.	8) Round 14.3333 to the nearest hundredth. ☐ If the answer has 5 digits, draw a shooting star in the sky. ☐ If the answer has a 3 in the hundredths place, draw an alien dog at the bottom.

PREVIEW FILE

ANSWER KEY

Directions: Solve the problems and add to the drawing



1) 2.742

- ☒ If the value of the underlined digit is 0.04, draw an alien bird on the tree.
- ☒ If the value of the underlined digit is four tenths, draw 2 planets in the sky.

2) 1,310.0105

- ☒ If the value of the underlined digit is one hundredths, draw an alien fish in the water.
- ☒ If the value of the underlined digit is 0.001, draw an alien ship in the sky.

3) 0.1667

- ☒ If the value of the underlined digit is 7 thousandths, draw an alien standing by the tree.
- ☒ If the value of the underlined digit is 0.0007, draw an alien shark in the water.

4) 7.3340

- ☒ If the value of the underlined digit is 0.3, draw an astronaut by the tree.
- ☒ If the value of the underlined digit is 33 tenths, draw an alien dog chasing the astronaut.

5) 560.0611

- ☒ If the value of the underlined digit is 0.0011, draw stripes on the hill behind the cat.
- ☒ If the value of the underlined digit is one thousandth, draw a three-headed snake.

6) 0.4

- ☒ If the value of the underlined digit is 0.4, draw a cat.
- ☒ If the value of the underlined digit is 0.04, draw a snake.

7)

Challenge Page

Name: _____

Challenge #1:

Choose a drawing prompt that was not correct. Create a problem that fits the prompt, and add the drawing to the original page.

Example:

Original Problem	Identify the underlined digit: 1) 2.742
Original Drawing Prompts	☒ If the value of the underlined digit is 0.04, draw an alien bird on the tree. ☒ If the value of the underlined digit is four tenths, draw 2 planets in the sky.

New Problem:

0.4812

Challenge #1 Workspace:

Challenge #2:

Create a new equation and write two new drawing prompts. One drawing prompt must be correct, the second is your choice.

New problem:

New Drawing Prompts:

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THANK YOU FOR PREVIEWING!

Please contact me via my store Q & A or email me at activatededucation@gmail.com if you have any questions, concerns, or feedback.

Thank you!



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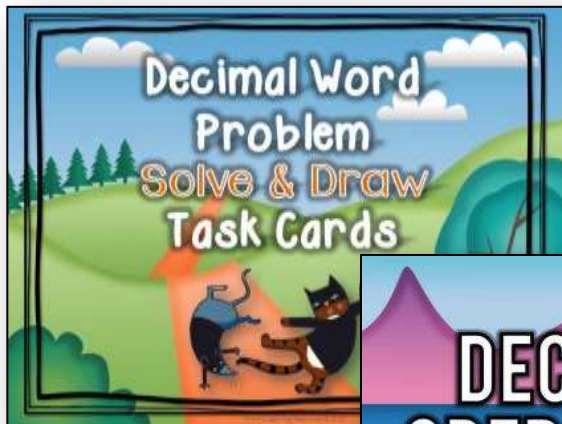


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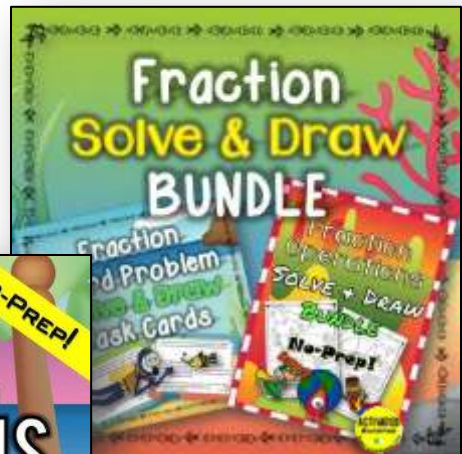
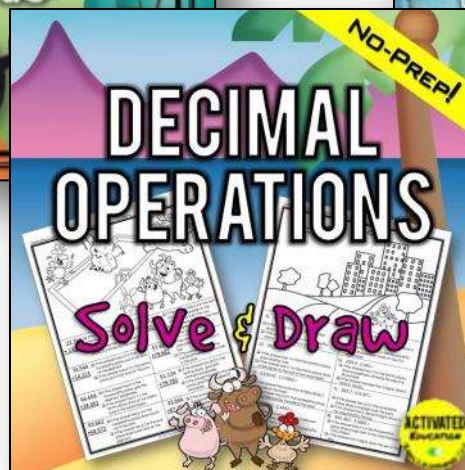


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