



Operations with
COMPLEX NUMBERS

SCAVENGER HUNT



COMPLEX NUMBERS

Scavenger Hunt!

Objective: Students will practice simplifying, adding, subtracting, multiplying, and dividing complex numbers. For division, students must be able to rationalize the denominator, which includes multiplying by the conjugate. This activity was written for an Algebra 2 level class.

Directions:

- 1) Print the 24 stations and scatter around the room (and in the hallway, if possible, the students love to leave the room!).
- 2) Distribute the recording worksheet to each student, then place students in groups of 2-3 and assign a starting problem. They solve the problem at their station. The answer they get will lead them to the next station. They continue looping around until they have completed all 24 stations. **Be sure students record the letter at each station to make it easier for you to grade!**

Includes student worksheet, 24 stations, and answer key!

COMPLEX NUMBERS Scavenger Hunt Name: _____ Date: _____ Per: _____

Directions: Use your answers to determine which problem to go to next. Be sure to write down the letter of the problem at each station in the circle. You should end at the problem you started with.

RECORD THE LETTERS OF THE SCAVENGER HUNT IN THE ORDER THAT YOU GO TO THEM.

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PREVIOUS ANSWER: 24 **COMPLEX NUMBERS Scavenger Hunt**
X $(-4i)^2 \cdot (2i)^3$

PREVIOUS ANSWER: 12i **COMPLEX NUMBERS Scavenger Hunt**
V $\sqrt{-80}$

PREVIOUS ANSWER: -32 + 17i **COMPLEX NUMBERS Scavenger Hunt**
D $(6 - i)(2 - 7i)$

PREVIOUS ANSWER: -7 + i **COMPLEX NUMBERS Scavenger Hunt**
T $(4 - 5i) - (-1 - 2i)$

PREVIOUS ANSWER: -3i **COMPLEX NUMBERS Scavenger Hunt**
S $\frac{9 - 36i}{9i}$

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