

#### Hello Teachers,

Thank you for downloading this handout. After decades of teaching, now I am sharing some of the activities I designed for my students and some new ones as well.

Please, check out the self-paced teacher education courses on UnCommon-Core.com.

While you are there, sign up for your free copy of **Colorful Collections**: *A Mindful Exploration of Proper Fractions*.

Also, visit my Teachers Pay Teachers store UnCommon-Core dot com.

Thank you again. All the best,



## Isabelle

Isabelle Hoag M.Ed. Director of Education UnCommon-Core.com

Teacher Tips Preparation	This PDF is the free for now sample.	
Have extra recycling boxes handy, there will be lots of paper scraps.	This work addresses CCSS 3.OA.3 multiply and divide within 100.	Print the scratch paper on one side only. There are three versions of the scratch paper. Even better, grab scratch paper from recycling.
Print pages 11 &12 back to back. Ma copy first, then make class copies o are sure that they will print correct	nce you	To avoid confusion, practice making the Wolf Math booklet before class. If your students will be adding pages to the booklet, practice that as well.
Print a couple copies of the task car want the entire class working on Wo the same time. Use heavy paper if po	olf Math at	You may want to plan some mental math questions to use when introducing Wolf Math. "How many ~ paws on 3 wolves? Ears on 12 wolves? Tails on 100 wolves?
Laminate to save for future use.		You might copy the Wolf Facts page back to back with the Wolf Stats page. This way students will have some ideas when thinking of how they are like wolves.
Most of the resources are for adult a Sort and simplify the information you benefit your students as needed. You might also search for origami wo instructions on how to draw wolves.	u think would	I tried to find the length of a wolf snout. I thought it would make a fantastic stat. Students would enjoy comparing the length of their nose to that of a wolf! If your class isn't able to measures some wolf snouts,
Wolf Math Task Cards and Booklet		they could substitute the length of a husky's nose.



Teacher Tips In the Classroom



Let students do calculations on the scratch paper, then write the answer neatly in their book.

**Just Math:** Print the answer booklet and the task cards. When students have answered all eight questions, check as a whole class or in small groups.

There are blank task cards for you to fill out. Use facts you want your students to practice.

Alternatively, challenge your students to create some task cards ~ along with an answer key, of course!

Why not? Invite your students to rewrite and solve the problems in metric measurements, too?

Let early finishers rewrite multiplication problems as division problems and vice versa?

Research and list the types of prey that wolves hunt.

Math, Reading, and Science: Find lupine resources for your students to study while they work on these math problems.

When information from different sources conflicts (as it will) have a class discussion to figure out what is going on. This gives students insights into how scientists collect data and make estimations.

Have pairs of students find and share an interesting wolf fact. Ask how scientists might have done research to verify that fact. (I'm especially interested in who was brave enough to measure wolf fangs!)

Add pages to the Wolf Math booklet: fold blank pages diagonally, trace the booklet, and cut around the edge. Line up the center folds, use a long arm stapler to finish.

Your students might benefit from completing the Wolf Stats/My Stats page. You might want to list specific wolf stats before making class copies or you may decide to let your students choose the stats they want to use for comparison. Some students might not want to share their weight, or other specific information.

Wolf Math Task Cards and Booklet

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$_{\bigotimes}$ Each pup weighed one pound. $_{\bigotimes}$
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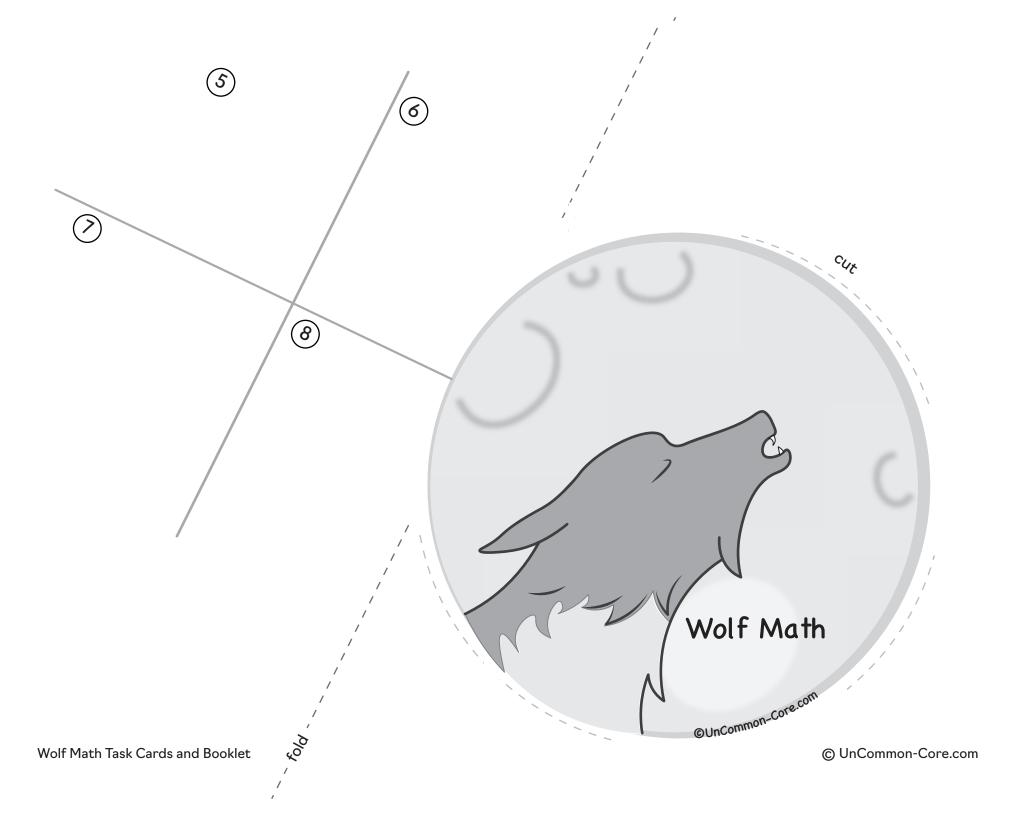
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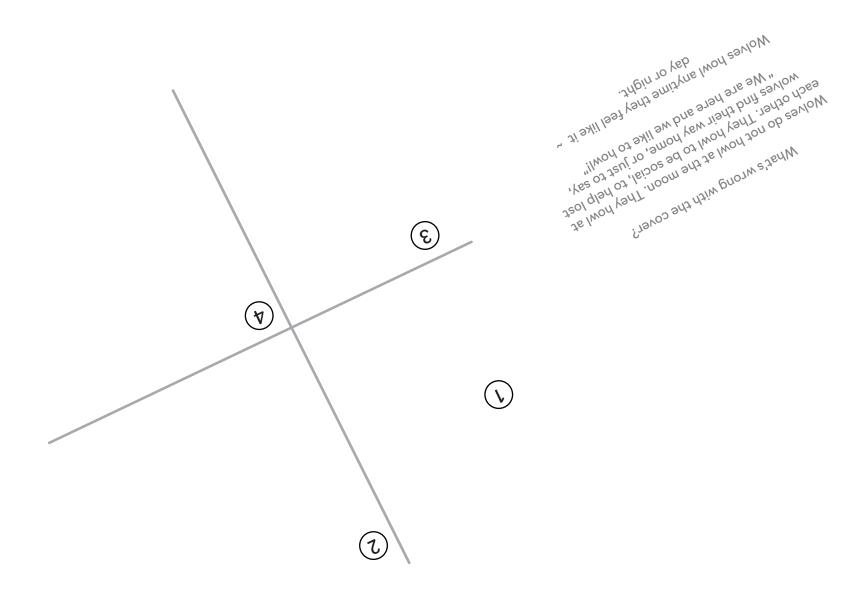












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Scratch Paper

Wolves recognize each other by scent. Presuming your teacher is not a wolf, please write your name on your Wolf Math booklet.



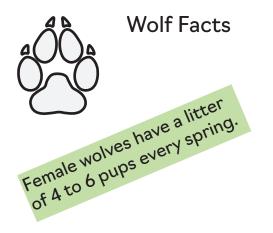
Scratch Paper

Wolves mark their stuff with their unique scent. Presuming you are not a wolf, please mark your Wolf Math booklet with your name.



## Scratch Paper

Wolves scratch the ground before sleeping to make a comfortable and safe bed. Humans use scratch paper to solve math problems before writing them neatly in their Wolf Math booklets.



Wolves have 42 teeth. Their fangs can reach 2.5 inches long! Wolves can hear howls as far as 6 to 7 miles away!

Eyes in front? Likes to hunt ~ Eyes to the side? Run and hide!

A typical gray wolf pack has between 6 to 10 individual wolves. However, some packs can have more than 25 wolves. A pack is a family. The leaders, the alphas, are the parents.

Wolf pups weigh about one pound when they are born. They are born with their eyes closed. When they are about two weeks old, their eyes will open. A week later they will begin to explore the world outside their den. At six months old they are nearly as tall as their parents!

Gray wolves need to eat about 3 to 7 pounds of meat daily in order stay healthy. Sometimes they eat a lot at once to keep them going for the next few days. A wolf never knows when its next meal is coming, so they hide food around their territory to make sure they will survive. Female gray wolves weigh between 50 and 85 pounds. From the tip of its nose to the tip of its tail they measure between 4.5 to 6 feet long!

Male gray wolves weigh between 70 and 110 pounds. They measure between 5 and 6.5 feet long from tip of their snout to tip of their tails. They stand between 26 to 32 inches high at the shoulder.

Wolf tracks vary depending on the size of the individual. Typically, a gray wolf track measures 4.5 inches tall by 3.5 inches wide. Wolves walk on their tip toes ~ so their tracks do not show their entire foot ~ just their toes!

A pack's territory can be as small as 50 square miles if that area has lots of prey. If there isn't as much prey the pack's territory could be 300 square miles or larger.

Wolves can trot about 5 miles per hour. When they chase their dinner, they can speed up. Their fastest speed is between 36 and 38 miles per hour. Wolves have to travel long distances to find food. Sometimes they travel more than 50 miles per day.



Wolf Stats



My Stats



Answer Key

1. The wolf ate 35 pounds in a week. Multiply

2. There were 54 burrs on the pups. Multiply

3. There were 6 pups in the litter. Divide

4. The trip was 8 hours long. Divide 5. Wolves have ten more teeth than humans. Subtract

6. The pack traveled 30 miles. Multiply

7. Twelve pups were born that spring. Multiply

8. The second wolf is 32 inches tall at the shoulder. Add



Links to Wolf Resources

### ANIMAL CORNER

Discover the many amazing animals that live on our planet.



**BIG SKY STORIES** 

## Interesting Facts About Wolves



## **EUTONATUR** STIFTUNG

WHAT WE DO > BEAR, WOLF, LYNX > WOLVES IN EUROPE > PROFILE: WOLF

### Profile: Wolf

Wolf Math Task Cards and Booklet









Shows Explore











#### **WOLF CONSERVATION CENTER**

7 Buck Run, South Salem, NY 10590 Mailing address: P.O. Box 421 South Salem, NY 10590 Phone: 914-763-2373





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