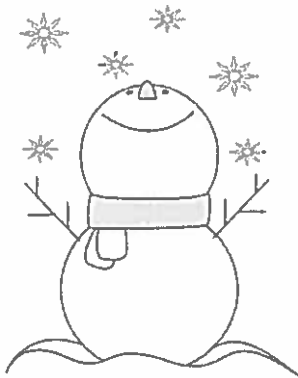


Name: _____ Date: _____ 4th Grade - MRS. BESONEN'S CLASS



SNOW DAY CHOICE BOARD

DIRECTIONS

1. CHOOSE AT LEAST ONE ACTIVITY FROM EACH COLUMN TO COMPLETE DURING TODAY'S SNOW DAY.
2. HAVE AN ADULT INITIAL EACH BOX THAT YOU HAVE COMPLETED.
3. TURN ALL COMPLETED WORK INTO TEACHER WHEN YOU RETURN TO SCHOOL.
4. ONLY STUDENTS RECEIVING SPEECH SHOULD DO SPEECH/LANGUAGE SQUARE AT BOTTOM OF SHEET.

MATH	READING	PHY ED/ MUSIC/ART	SPELLING	WRITING	FAMILY
<p>Spend 10 minutes on Multiplication / Division Practice (worksheet)</p> <p>Initials: _____</p>	<p>Read to Self for 20 minutes</p> <p>Title: _____ Pages: _____</p> <p>Initials: _____</p>	<p>Exercise for 20 minutes</p> <p>Initials: _____</p>	<p>Write spelling words in cursive</p> <p>Initials: _____</p>	<p>Try to write directions on how to play your favorite game</p> <p>Initials: _____</p>	<p>Make your mom and dad or brother/sister's bed besides your own</p> <p>Initials: _____</p>
<p>Do a math worksheet</p> <p>Initials: _____</p>	<p>Read to a family member or friend for 20 minutes</p> <p>Initials: _____</p>	<p>Make a poem and try to put music to it</p> <p>Initials: _____</p>	<p>Write each spelling word in a complete sentence</p> <p>Initials: _____</p>	<p>Write a summary of a book you read</p> <p>Initials: _____</p>	<p>Help with taking out the garbage or organizing a closet/drawer</p> <p>Initials: _____</p>
<p>Spend 20 minutes on Prodigy or /Sumdog</p> <p>Initials: _____</p>	<p>Do a reading worksheet (Wonderopolis worksheet)</p> <p>Initials: _____</p>	<p>Create a picture of your choice using what you have at home to create with (hint...can use outside view)</p> <p>Initials: _____</p>	<p>Write your spelling words in ABC order.</p> <p>Initials: _____</p>	<p>Write a letter to your teacher</p> <p>Initials: _____</p>	<p>Play a family game (board game, hide & seek, cards)</p> <p>Initials: _____</p>

Questions about today's assignment? Please contact your child's teacher:

Teacher's Name: Mrs. Besonen

Teacher's E-mail: abesonen@lqpv.org

ClassDojo

SPEECH/LANGUAGE:

Read a story. Listen for your sound. Repeat the word or sentence, based on level you are working at. Retell the story using slow and easy speech. Discuss the story with your parents.

Initials: _____





**Welcome
to your ELA Wonderopolis lesson!**

Each snow day lesson for 4th grade will be from wonderopolis.org. Each snow day you will read/ listen (if you have internet access) to a "Wonder of the Day." Next, on a whole sheet of notebook paper, write down 5 of the Wonder Words. For each Wonder Word, you must write the given definition and use this word in an original sentence.

Example: My word is ***prioritize***. The given definition is *give a priority to*, and my sentence is:

I need to ***prioritize*** my homework before playing video games.

Please include the title of the "Wonder of the Day," your first/last name, and the date of the snow day at the top of your paper.

Please turn in the following school day at the beginning of class.

Select Language ▼

Wonder of the Day #1138

How Do Birds Survive the Coldest Winters?

39 Comments



SCIENCE — Life Science

Have You Ever Wondered...

- How do birds survive the coldest winters?
- What techniques do birds use to adapt to colder weather?
- How can you help birds survive in cold weather?

We were bird watching the other day in Wonderopolis when we spotted a cardinal and a vulture having a conversation at the local watering hole. We were too far away to hear them, but we could read their beaks through our binoculars:

Vulture: Hey Red! You ready for winter yet?

Cardinal: Nope! Not yet. How about you, Larry?

Vulture: Not quite, but I have a plan. You headed south again this year?

Cardinal: You bet. Florida is sounding really good about now. What about you?

Vulture: No way. I don't do beaches. I'm going to buy some feathers from a duck and make myself a nice down jacket.

Cardinal: Nice! I'm down with that!

Vulture: That's horrible, Red. A joke that bad should make you feel embarrassed.

Cardinal: I know! I'm turning red...

Vulture: Stop it, Red! You're killing me!

Cardinal: That means a lot coming from a vulture!

That got us to thinking: how exactly do birds survive the coldest winters? You don't see any of them wearing jackets. You don't see heaters or blankets in the trees. Some birds fly south for the winter, but there are always birds around all year. How do they do it?

Birds have many different ways they adapt to life in the coldest months. Birds have a hard time in cold weather, because their body temperatures are higher than those of humans. Although exact body temperature varies by species, birds tend to have body temperatures around 105° F. So it's hard for birds to maintain that high body temperature in colder weather.

The feathers that cover birds are more than just for beauty. They provide warmth and insulation against colder temperatures. Many birds grow extra feathers in the months leading up to colder weather, so that they'll stay warmer when temperatures drop.

Some birds also have an oily coating on their feathers that also provides insulation, as well as waterproofing. Birds can also fluff up their feathers to create air pockets between the feathers. These air pockets provide even more insulation.

In the months leading up to colder weather, birds often increase their fat intake, too. Increased fat reserves can help even the smallest birds have extra energy, so they can generate more body heat.

Birds can lose a lot of heat through their legs and feet. Some birds have special scales on their legs and feet that reduce heat loss. Birds also sometimes stand on one leg or tuck legs and feet into their feathers to minimize heat loss.

On sunny days, you'll likely see birds bathing in the sun with their backs toward the bright rays. Even when it's cold outside, the sun can heat a bird's skin and feathers when they're sunning.

On extremely cold days, you may see birds shivering. This has the same purpose as when you shiver. Shivering causes a bird's metabolic rate to increase and thereby increases body temperature.

In the winter, you may also see smaller birds of a feather flock together. When large flocks of birds crowd together into a tight space, they all benefit from their shared body heat.

Other birds may instead go into a hibernation-like state called torpor. Birds in torpor lower their body temperatures to conserve body heat. This helps them survive the cold, but it also makes them more vulnerable to predators, since their reaction times tend to be lower in torpor.

Wonder Words (20)

ADAPT, SURVIVE, BIRD, WINTER, FEATHER, FLOCK, RESERVE, GENERATE, SHIVER, CARDINAL, VULTURE, INSULATION, CONVERSATION, TECHNIQUE, BINOCULARS, EMBARRASS, WATERPROOF, METABOLIC, HIBERNATION, TORPOR

Wonder What's Next?

Today's Wonder of the Day has many, many rings, but you can't see them!

Try It Out

Do you have some feathery friends you'd like to help out the next time Old Man Winter rolls around? No, you don't have to let your local birds sleep in your closet or under your bed. But there are some easy ways you can help them survive the next cold spell! Here are a few ideas for activities that you can try out with a friend or family member:

Feed them! Bird feeders come in all sorts of shapes and sizes. A visit to a local store will also reveal how many different types of bird food are available. For cold winters, offer foods that are high in fat and calories to help your backyard buddies generate plenty of body heat. Check out [How To Make Homemade Bird Food \(http://www.homemadebirdfood.com/\)](http://www.homemadebirdfood.com/) online for more ideas!

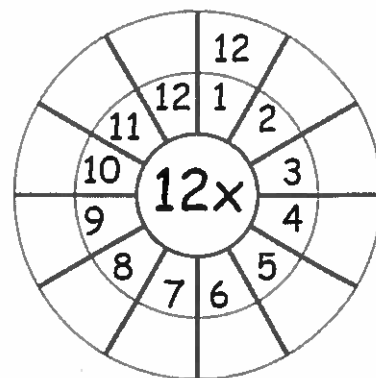
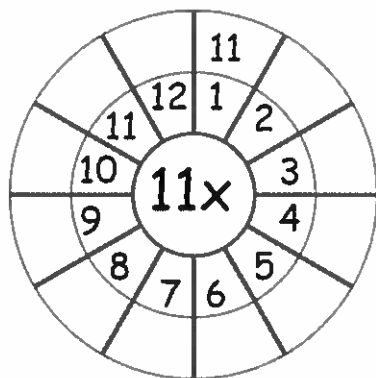
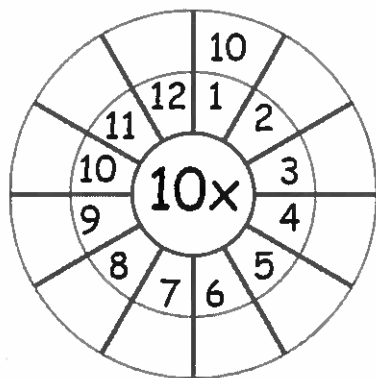
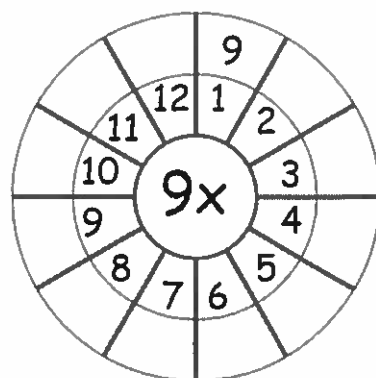
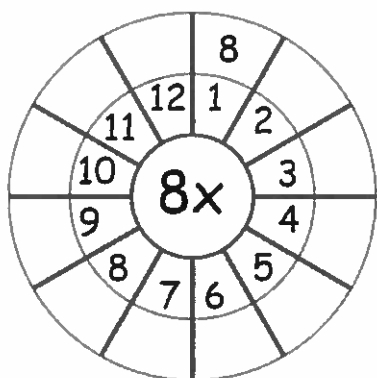
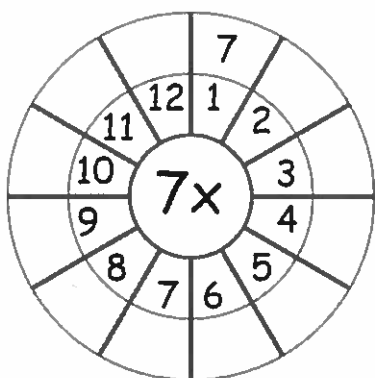
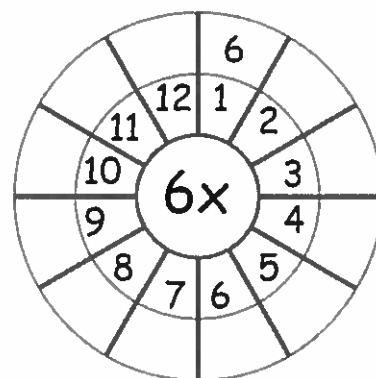
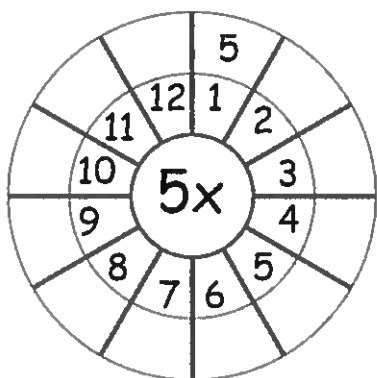
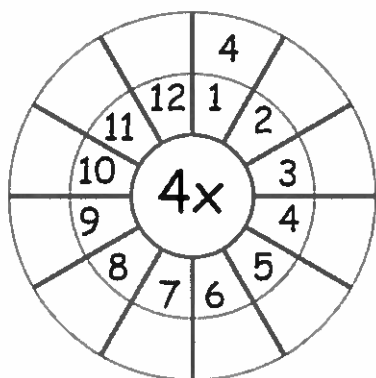
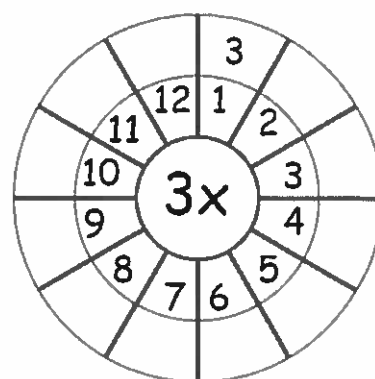
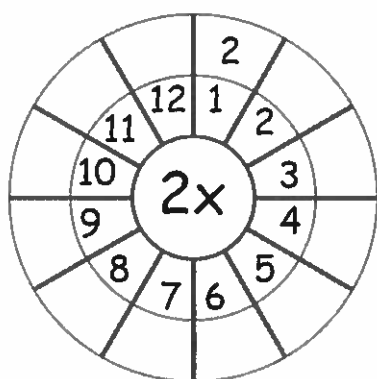
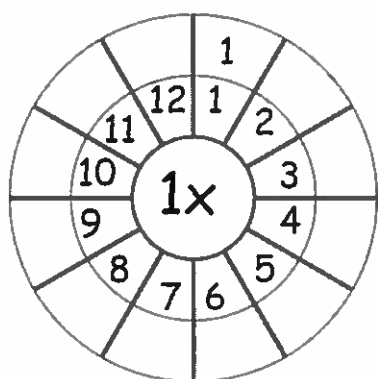
Water them! Water can be hard to find during cold winters, because it often freezes. Offering birds liquid water to drink throughout the winter can help them not only survive, but also to thrive! Feeling a little crafty? Try one or more of these [Homemade Birdbath Ideas \(http://www.thriftyfun.com/tf/Gardening/Container/Homemade-Birdbath-Ideas.html\)](http://www.thriftyfun.com/tf/Gardening/Container/Homemade-Birdbath-Ideas.html) !

Give them a home! You can buy or build birdhouses (<http://www.lifespace.com/Content.aspx?ID=82155>) to put in your backyard that will give local birds shelter in the winter. Birdhouses aren't the only types of shelter you can provide, though. Planting evergreen shrubs and trees can also provide needed shelter to birds during the coldest months. Some birds will also take shelter in brush piles, so keep your feathered friends in mind when you discard limbs and other organic matter.

<http://wonderopolis.org/wonder/how-do-birds-survive-the-coldest-winters>

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Multiply the numbers by the center number.





Use addition, subtraction, multiplication or division to solve each problem.

- 1) An industrial machine can make 6 shirts every minute. How many shirts would it have made in 9 minutes?
- 2) At the state fair Mike spent 9 tickets on the roller coaster and 4 tickets on the ferris wheel. How many tickets did he spend total?
- 3) There are 12 students in the school band. If the band instructor put the students into rows with 2 students in each row, how many rows could he make?
- 4) Larry's Lawn Care charges 3 bucks to trim a hedge. If Roger has 8 hedges, how much money would he spend?
- 5) Oliver mowed his lawn 2 times in the spring and 5 times in the summer. How many times did he mow total?
- 6) George bought his family 10 pieces of chicken for dinner. If they only ate 4, how many pieces does he have left?
- 7) At the fair the roller coaster can hold 30 people total. If each car has 5 seats, how many cars are there?
- 8) The mailman delivered 11 pieces of mail to a house. If 2 of the pieces were junkmail, how many pieces were actually good?
- 9) Sarah was helping her mom pick apples from the tree in their front yard. Together they picked 10 total. If 3 of the apples weren't ripe yet, how many good apples did they pick?
- 10) Isabel was buying sodas for her and her friends. They needed 2 sodas, but Isabel bought 8 extra. How many did she buy?
- 11) An architect was building a hotel downtown. He built it with 6 rooms total. If there are 3 rooms on each story how many stories tall is the hotel?
- 12) A chef had 9 potatoes to make fries with, but he only used 7 of them. How many potatoes does he still have?
- 13) Victor made 9 dollars mowing lawns over the summer. If he charged 3 bucks for each lawn, how many lawns did he mow?
- 14) Ned played 5 games of basketball with his friends. If Ned scored 6 points each game, how many points did he score total?
- 15) A pet store had 7 cages of snakes with 8 snakes in each cage. How many snakes did the pet store have total?

Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____
15. _____