

Weekly Math/Science Homework 1

Week of: _____ Name: _____

Monday	Question	Answer and Work
(Math)	Samantha baked a cake for her grandmother. Samantha ate $\frac{1}{8}$ of the cake, and her grandmother ate $\frac{1}{4}$ of the cake. How much of the cake is left?	
(Math)	Three friends were making an art project. They had $\frac{1}{2}$ of a container of clay. If the friends shared the clay equally, how much of the original container of clay did they each use?	
(Science)	What can cause a moving object to increase its speed in a forward direction?	A a force pushing on the object from the opposite direction B a force that continually acts on the object in the direction the object is moving C an increase in the mass of the object D a decrease in the mass of the object
(Science)	A child rides a wagon down a hill. Eventually, the wagon comes to a stop. Which is most responsible for causing the wagon to stop?	A gravity acting on the wagon B friction acting on the wagon C the mass of the wagon D the mass of the child

Tuesday	Question	Answer and Work
(Math)	Andrea has to read a 244 page book in 8 days. How many pages does she have to read each day to be finished on time?	
(Math)	Two-thirds of the students in Carl's class are boys. Three-eighths of the boys are 10 years old. What fraction of the students in Carl's class are 10 year-old boys?	
(Science)	Which food chain is in the correct order?	A grasshopper → grass → snake → frog → hawk B grasshopper → frog → hawk → snake → grass C grass → grasshopper → frog → snake → hawk D grass → grasshopper → snake → frog → hawk
(Science)	Why can frogs and snakes live in the same garden?	A Both keep weeds out of the garden. B Both help different plants to grow. C Both occupy different niches. D Both compete for water.

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Wednesday	Question	Answer and Work
(Math)	Lydia has $6\frac{1}{2}$ bags of gumballs. In each of the bags, $\frac{3}{4}$ of the gumballs are red. If Lydia removes all the red gumballs, how many bags of only red gumballs can Lydia make?	
(Math)	Joanna walks $2\frac{1}{5}$ miles each day. How many miles will she have walked after 10 days?	
(Science)	A student picks up a glass of ice water and her hand gets wet. What most likely caused her hand to get wet?	A The table was wet. B The water in the glass evaporated. C Some of the ice in the water melted. D Condensation formed on the outside of the glass.
(Science)	During evaporation, which change best describes what happens to water?	A A gas changes to a liquid. B A gas changes to a solid. C A liquid changes to a gas. D A liquid changes to a solid.

Thursday	Question	Answer and Work
(Math)	Emma ran $4\frac{1}{2}$ miles. For $\frac{2}{3}$ of her run, she was running uphill. What fraction shows the distance she ran uphill?	
(Math)	Nick had to read $7\frac{1}{2}$ pages for homework. He read $3\frac{2}{3}$ pages before dinner and $\frac{1}{4}$ page after dinner. How many pages does Nick still need to read?	
(Science)	Which type of cloud is made of ice crystals?	A fog B cirrus C cumulus D stratus
(Science)	Which best describes a correct order of the water cycle?	A precipitation, runoff, condensation, evaporation, precipitation B precipitation, runoff, evaporation, condensation, precipitation C precipitation, evaporation, condensation, runoff, precipitation D precipitation, evaporation, runoff, condensation, precipitation

Weekly Math/Science Homework 2

Week of: _____ Name: _____

Monday	Question	Answer and Work
(Math)	Pete's Pizza Shop used 9 packages of pepperoni to make 30 pizzas. Each pizza needed the same amount of pepperoni. How much of each package was used on each pizza?	
(Math)	What is the sum of $2\frac{1}{2}$ and $\frac{3}{4}$?	
(Science)	How have desert plants adapted to their environment?	A by limiting the use of sunlight B by storing water C by distributing certain nutrients D by releasing water
(Science)	Which is the best example of habitat reduction caused by humans?	A Birds and animals flee a forest fire caused by lightning. B Birds become sick from eating insects new to their area. C Fish swimming to breeding grounds are blocked by dams. D A new species of fish migrates up a river, competing with native fish for food.

Tuesday	Question	Answer and Work
(Math)	Jacob ate $\frac{2}{5}$ of a cake. Sam ate $\frac{3}{10}$ of the same cake. What is the difference in the amounts of cake the two boys ate?	
(Math)	What is the value of the expression below? $15 - 4\frac{1}{8}$	
(Science)	What do meteorologists depend on to forecast an approaching storm?	A air pressure B humidity C temperature D wind speed
(Science)	Most warm and cold air masses that enter North Carolina are moved by global winds. Which global winds are responsible for most of the local weather in North Carolina?	A northeast trade B southeast trade C polar easterlies D prevailing westerlies

Wednesday	Question	Answer and Work
(Math)	Larry read $1\frac{3}{4}$ book one week and $1\frac{1}{8}$ book the next week. How many books did he read in the two weeks?	
(Math)	Ming Lee made cereal bars for her class party. She used $\frac{2}{3}$ box of cereal for the first batch she made. Later, she used $\frac{1}{3}$ of the same box to make a second batch. How much of the box of cereal did she use in all?	
(Science)	Two people are each pulling on the opposite ends of a rope. If they are pulling on the rope with equal but opposite forces, what will happen to the rope?	<p>A It will stay in place between the two people.</p> <p>B It will move toward the right.</p> <p>C It will move toward the left..</p> <p>D It will fall to the ground.</p>
(Science)	What increases as a rock falls to the ground?	<p>A the density of the rock</p> <p>B the pull of gravity on the rock</p> <p>C the inertia of the rock</p> <p>D the momentum of the rock</p>

Thursday	Question	Answer and Work
(Math)	If a roll of wallpaper measures 4 feet by $2\frac{1}{2}$ feet, what is the area in square yards? If each square foot costs 5 dollars, what is the cost of the entire roll of wallpaper?	
(Math)	At Demetrius's Arcade, $\frac{3}{4}$ of the games are racing games. Among the racing games, $\frac{1}{2}$ are motorcycle-racing games. What fraction of the games at Demetrius's Arcade are motorcycle-racing games?	
(Science)	A small fish, called a cleaner fish, picks bits of food from a shark's teeth. What can best be concluded about this behavior?	<p>A It takes needed nutrition away from the shark.</p> <p>B It helps both the cleaner fish and the shark.</p> <p>C It removes food from inside the shark's body.</p> <p>D It helps the shark blend in with its surroundings.</p>
(Science)	Which resource do decomposers return to the environment?	<p>A light</p> <p>B nutrients</p> <p>C oxygen</p> <p>D water</p>

Weekly Math/Science Homework 3

Week of: _____ Name: _____

Monday	Question	Answer and Work
(Math)	How do you write 9.6×10^3 in standard form?	
(Math)	Ellie saved \$21 in June, \$21 in July, and \$24 in August. Then Ellie spent \$15 on school supplies and \$10 on new clothes. How much money does Ellie have left?	
(Science)	An object moving along a surface suddenly increases speed. What can cause this to happen?	<p>A It is moved by balanced forces.</p> <p>B It is moved by two opposite forces.</p> <p>C It is moved by an unbalanced force.</p> <p>D It is moved by a force without direction.</p>
(Science)	When workers spread sand over icy bridges and roads in the winter, how does this help people drive on the roads?	<p>A The sand increases friction between the road and the tires of a car.</p> <p>B The sand increases the inertia of a car.</p> <p>C The sand increases the speed of a car.</p> <p>D The sand increases the momentum of a car.</p>

Tuesday	Question	Answer and Work
(Math)	Nancy bought 2 spools of blue thread. She got 228.2 inches of thread in all. How many inches of thread were on each spool?	
(Math)	Marta bought a package of 4 chocolate cookies. Each cookie weighed 0.3 ounces. How much did the 4 cookies weigh all together?	
(Science)	A car is traveling at a speed of 45 km/h to a town 90 km away. If distance ÷ time = speed, how long will the car take to get to the town?	<p>A 0.5 hour</p> <p>B 1 hour</p> <p>C 1.5 hours</p> <p>D 2 hours</p>
(Science)	What occurs when cool air moves from the beach toward the ocean during the night?	<p>A a land breeze</p> <p>B prevailing winds</p> <p>C a sea breeze</p> <p>D updrafts</p>

Weekly Math/Science Homework 3

Week of: _____ Name: _____

Wednesday	Question	Answer and Work
(Math)	A cookie factory uses $\frac{3}{8}$ of a barrel of oatmeal in each batch of cookies. The factory used $\frac{3}{4}$ of a barrel of oatmeal yesterday. How many batches of cookies did the factory make?	
(Math)	Layla poured $\frac{1}{12}$ of a gallon of water into a bucket. Later, she added $\frac{5}{6}$ of a gallon more. How much water is in the bucket now?	
(Science)	An object is moving at a constant speed. If a balanced force is applied in the opposite direction the object is moving, what will most likely happen?	<p>A The object will speed up. B The object will change direction. C The object will continue moving at a constant speed. D The object will slow down and eventually stop moving.</p>
(Science)	A student is riding a bike and applies the brakes. Which most helps the bike to stop?	<p>A friction B gravity C heat D momentum</p>

Thursday	Question	Answer and Work
(Math)	Last week, Brody spent 5 hours watching television. Alan watched television for $\frac{2}{3}$ as many hours as Brody did. How many hours did Alan spend watching television?	
(Math)	Jack picked $\frac{1}{2}$ of a pound of berries. He divided them evenly among 4 containers. How many pounds of berries did Jack put in each container?	
(Science)	Where do climate conditions cause hurricanes to become larger and more powerful?	<p>A over warm water B over cold water C over mountains D over dry, flat land</p>
(Science)	Which is most likely part of a weather station in a school?	<p>A balance scales B magnifying lens C rain gauge D telescope</p>

Weekly Math/Science Homework 4

Week of: _____ Name: _____

Monday	Question	Answer and Work
(Math)	At Fulton College, $\frac{1}{3}$ of the students are enrolled in an art class. Of the students enrolled in an art class, $\frac{1}{2}$ are enrolled in a painting class. What fraction of the students at Fulton College are enrolled in a painting class?	
(Math)	A cookie factory uses $\frac{1}{4}$ of a barrel of oatmeal in each batch of cookies. The factory used $\frac{1}{2}$ of a barrel of oatmeal yesterday. How many batches of cookies did the factory make?	
(Science)	Which factor is most helpful in determining where a thunderstorm is coming from and where it may go?	A humidity B wind speed C wind direction D amount of rainfall
(Science)	What causes an apple to fall from a tree?	A gravity B friction C mass D wind

Tuesday	Question	Answer and Work
(Math)	Zoe needs to add $\frac{3}{4}$ of a cup of sugar to her cookie dough. She only has a $\frac{1}{4}$ -cup measure. How many scoops of sugar does Zoe need to add?	
(Math)	On Wednesday the farmers at the Knox Farm picked $\frac{1}{2}$ of a barrel of tomatoes. Thursday, the farmers picked $\frac{3}{10}$ as many tomatoes as on Wednesday. How many barrels of tomatoes did the farmers pick on Thursday?	
(Science)	A runner records the distance and time he ran around a track. What can be determined from this data?	A direction B force C speed D velocity
(Science)	Heat from the sun is most responsible for which process?	A water cycle B freezing C volcanic eruptions D rock cycle

Wednesday	Question	Answer and Work
(Math)	At Fulton High School, $\frac{1}{2}$ of the students play an instrument. Of the students who play an instrument, $\frac{1}{2}$ play a string instrument. What fraction of the students at Fulton High School play a string instrument?	
(Math)	Today Gabby is carrying her history textbook and her lunch in her backpack. If the history textbook weighs $\frac{1}{10}$ of a pound and her lunch weighs $\frac{1}{10}$ of a pound, how much weight is in Gabby's backpack?	
(Science)	A metal can of soda was placed in a freezer. After a few hours, the can burst. What caused the can of soda to burst?	<p>A The metal can froze and expanded, pushing the soda out of the can.</p> <p>B The metal can froze and shrank, pushing the soda out of the can.</p> <p>C The soda in the metal can froze and expanded, pushing the soda out of the can.</p> <p>D The soda in the metal can froze and shrunk, creating unequal pressure in the can.</p>
(Science)	A person near a fire can feel the heat from the fire. Which process causes the person to feel the heat?	<p>A convection C conduction</p> <p>B radiation D condensation</p>

Thursday	Question	Answer and Work
(Math)	Last month, Hector and Tracy sold candy to raise money for their debate team. Tracy sold $\frac{5}{8}$ as much candy as Hector did. If Hector sold 2 boxes of candy, how many boxes of candy did Tracy sell?	
(Math)	A factory puts $\frac{7}{10}$ of a gallon of vinegar into each batch of salad dressing. How many gallons of vinegar will be used in 6 batches?	
(Science)	Which best describes the Gulf Stream?	<p>A a warm air mass that brings strong thunderstorms</p> <p>B a warm ocean current that influences weather along the east coast of the United States</p> <p>C a body of cold water in the Atlantic Ocean</p> <p>D a warm ocean current that influences weather along the west coast of the United States</p>
(Science)	In nature, what is the main producer of fertilizer for plants?	<p>A bacteria C air</p> <p>B Miracle Grow D heat</p>

Weekly Math/Science Homework 5

Week of: _____ Name: _____

Monday	Question	Answer and Work
(Math)	Megan made $\frac{2}{3}$ of a pound of trail mix. If she puts $\frac{1}{3}$ of a pound into each bag, how many bags can Megan fill?	
(Math)	Ben made 2 trips to visit his grandmother. He drove 981 miles in all. How far did Ben drive on each trip? (answer is a decimal)	
(Science)	Which statement best describes which traits a child inherits from its parents?	A A child only inherits traits from its father. B A child only inherits traits from its mother. C A child inherits traits from both its mother and father. D A child doesn't inherit any traits from its parents.
(Science)	A child has blue eyes, but both of her parents have brown eyes. What can best be concluded from this statement?	A Eye color is not an inherited trait. B The child has other biological relatives with blue eyes. C The eyes of the child changed from brown to blue. D At least one parent carried the recessive trait.

Tuesday	Question	Answer and Work
(Math)	A lollipop factory used 9 kilograms of sugar to make 5 batches of lollipops. How much sugar did the factory put in each batch? (answer with a fraction)	
(Math)	Gina walked 1.6 miles to the park. Then she walked another 2.7 miles to a cafe. How far did Gina walk in all?	
(Science)	Three different balls were thrown with the same amount of force. Which ball would move the slowest?	A a ball with a mass of 250 grams B a ball with a mass of 500 grams C a ball with a mass of 1,000 grams D a ball with a mass of 1,500 grams
(Science)	What must happen before clouds can form?	A Water vapor must lose heat energy. B It must be daytime. C Moist air must evaporate. D It must be raining.

Weekly Math/Science Homework 5

Week of: _____ Name: _____

Wednesday	Question	Answer and Work
(Math)	In March it rained 0.98 inches. It rained 0.84 inches less in April than in March. How much did it rain in April?	
(Math)	There were 9.67 gallons of water in Austin's bathtub. Then 7.83 gallons drained out. How much water is left in the bathtub?	
(Science)	Which is the best example of a physical change?	A ice melting B candle burning C bread baking D a bike rusting
(Science)	A baby bird is removed from its nest at birth and raised by humans. When it gets older, the bird is able to build a nest similar to the one built by its parents. What causes the bird to have the ability to build a similar nest?	A It learned the ability from those who raised it. B Its ability was inherited from the parent birds. C It learned the ability from other birds. D It watched other birds create their nests.

Thursday	Question	Answer and Work
(Math)	Diego bought a bag of carrots that weighed 5.55 pounds and a bag of potatoes that weighed 7.95 pounds. How many pounds of vegetables did Diego buy?	
(Math)	Angie bought 6.7 pounds of peanuts and 6.5 pounds of raisins. How many pounds of snacks did she buy in all?	
(Science)	Which is an example of convection?	A hot air rising, and sinking as it cools B a light bulb giving off heat C a stove heating a metal pan D ice cubes cooling a drink
(Science)	Why are cooking pots usually made of metal?	A Metal reflects heat. B Metal conducts heat. C Metal insulates heat. D Metal radiates heat.

Weekly Math/Science Homework 6

Week of: _____ Name: _____

Monday	Question	Answer and Work
(Math)	At Adams College, $\frac{4}{5}$ of the students are enrolled in an art class. Of the students enrolled in an art class, $\frac{2}{3}$ are enrolled in a painting class. What fraction of the students at Adams College are enrolled in a painting class?	
(Math)	The construction engineer calculated that he needed 3 support pillars of equal size. He ordered $\frac{1}{3}$ of a ton of concrete to make the support pillars. How much concrete did he use for each support pillar?	
(Science)	Why can single-celled organisms survive without the help of other kinds of cells?	A They can carry out all the cell functions necessary for life. B They produce special substances to avoid predators. C They don't need to eat. D They reproduce at slower rates than other types of cells.
(Science)	The digestive and circulatory systems work together to provide what for the body?	A structure B nutrients C oxygen D blood

Tuesday	Question	Answer and Work
(Math)	Of the hats in Ning's Hat Shop, $\frac{1}{4}$ are indigo and another $\frac{1}{4}$ are white. What fraction of the hats are either indigo or white?	
(Math)	A gardener spread $\frac{1}{3}$ of a bag of mulch evenly over his 3 equal-sized vegetable beds. How much mulch did he put on each vegetable bed?	
(Science)	Which is the best example of a trait that is inherited?	A hair texture B food preferences C weight D musical talent
(Science)	Which process is happening when plant leaves release water vapor?	A transpiration B condensation C photosynthesis D precipitation

Weekly Math/Science Homework 6

Week of: _____ Name: _____

Wednesday	Question	Answer and Work
(Math)	Lucy's lemon cookie recipe calls for $\frac{3}{4}$ of a cup of sugar. How much sugar would Lucy use to make 4 batches of cookies?	
(Math)	Mrs. Brock had $\frac{1}{2}$ of a cherry pie left over. She split the leftover pie evenly between her 3 children. What fraction of a pie did each child get?	
(Science)	An empty glass is at room temperature. A student pours cold water into the glass. What will most likely result?	<p>A Heat energy will transfer from the cold water to the glass until both are at the same temperature.</p> <p>B Heat energy will transfer from the glass to the cold water until both are at the same temperature.</p> <p>C Heat energy will transfer from the glass to the cold water until the glass has no more heat energy.</p> <p>D Heat energy will transfer from the cold water to the glass until the cold water has no more heat energy.</p>
(Science)	Railroad tracks have metal rails placed so there is a small space between each rail. Why are the rails placed in this way?	<p>A to prevent a train from stopping</p> <p>B to allow room for expansion during hot weather</p> <p>C to prevent soil erosion around the tracks</p> <p>D to make the trains run faster</p>

Thursday	Question	Answer and Work
(Math)	A math teacher has \$90 to buy new calculators. If each calculator costs \$15, how many calculators can the teacher buy?	
(Math)	Why is 1 and $\frac{1}{2}$ an UNREASONABLE answer for the above question?	
(Science)	Why do specialized cells live in some organisms?	<p>A Not all cells function at the same time.</p> <p>B Groups of cells are unable to function alone.</p> <p>C Each cell of an organism may not have the ability to survive on its own.</p> <p>D Groups of cells are unable to function together.</p>

<p>(Science)</p>	<p>A group of students was studying weather. They made these observations:</p> <ul style="list-style-type: none">• It was rainy and foggy.• The air pressure was slowly rising during the day. <p>Which kind of weather will most likely occur the next day?</p>	<p>A rainy weather B cold weather C fair weather D stormy weather</p>
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Weekly Math/Science Homework 7

Week of: _____ Name: _____

Monday	Question	Answer and Work
(Math)	What is the value of the expression: $6 \frac{7}{8} + 4 \frac{3}{4} + 8 \frac{1}{2} =$	
(Math)	There were 5 pizzas at the party for two families. Caroline's family ate $1 \frac{3}{8}$. Julia's family ate $1 \frac{1}{3}$. How much pizza was left ?	
(Science)	Which best describes how most air masses move across the United States?	A The trade winds move air masses from the equator to the United States. B The prevailing westerlies move air masses from the west coast to the east coast of the United States. C The jet stream moves air masses from the Gulf of Mexico to the Pacific Ocean. D The trade winds move air masses toward the equator.
(Science)	Which is an example of a single-celled organism?	A bacteria C insect B plant leaf D flower

Tuesday	Question	Answer and Work
(Math)	Josh poured 38 gallons of water into 6 buckets. He poured the same amount into each bucket. How much water did Josh pour into each bucket?	
(Math)	Two-thirds of the students in a class are wearing blue jeans. Two-sixths of the students who are wearing blue jeans are also wearing red shirts. What fraction of the students in the class are wearing blue jeans and red shirts?	
(Science)	What is a function of the cardiovascular system?	A to transport liquids throughout the body B to provide structural support for the body C to eliminate solid waste from the body D to transport gases throughout the body
(Science)	Why are carnivores important to an ecosystem?	A They help keep a healthy balance of producers and consumers. B They help get energy for the other plants and animals. C They prevent diseases from spreading. D They help plants from being sparse.

Wednesday	Question	Answer and Work
(Math)	Jim has $\frac{1}{2}$ pound of raisins. He puts the raisins into 4 bags. He puts the same amount in each bag. What amount of raisins did he put into each bag?	
(Math)	The total length of three boards is $\frac{7}{8}$ of a yard. The lengths of two of the boards are $\frac{1}{4}$ of a yard and $\frac{3}{16}$ of a yard. What is the length of the third board?	
(Science)	A mother bird has four baby birds. Each baby bird has a pointed beak. What can best be concluded from this information?	A One of the parent birds has a pointed beak. B Each of the baby birds is a different color. C The birds need beaks to eat food. D The mother bird is larger than the father bird.
(Science)	A soccer ball, a tennis ball, and a marble are thrown with the same amount of force. Which will move the fastest?	A soccer ball C marble B balloon D tennis ball

Thursday	Question	Answer and Work
(Math)	At a picnic, 12 people shared 4 large sandwiches equally. How much of a sandwich did each person get to eat?	
(Math)	Each of 5 boys ate $\frac{2}{3}$ of a pizza. What is the total amount of pizza the boys ate?	
(Science)	How do bicycle brakes slow down a bicycle?	A They add mass to the wheels of the bicycle. B They use gravity on the wheels of the bicycle. C They create friction on the wheels of the bicycle. D They add energy to the wheels of the bicycle.
(Science)	Which is most responsible for the coastal areas of North Carolina having milder temperatures than more inland areas?	A the jet stream B the Gulf Stream C the prevailing westerlies D trade winds