



THIRD SPACE
LEARNING

Themed Math Problems

Set 2

January - February

4th grade

New Year's Day

January 1st

Today, we celebrate the first day of the new calendar year. People around the world celebrate this day by reminiscing on the past year and setting goals for the year ahead with family and friends.

Question



World Braille Day

January 4th

Today, we celebrate and bring awareness to the importance of braille as a means of communication for blind and visually impaired people.

Question



Martin Luther King Jr. Day

Third Monday in January

Today, we celebrate Martin Luther King Jr., an activist and political philosopher, who was one of the most prominent civil rights leaders during the 1950's and 60's.

Question



Black History Month

February

February marks Black History Month, a tradition that was officially recognized in 1976 as part of the nation's celebrations. It aims to honor the contributions that African Americans have made and to recognize their sacrifices.

Question



Groundhog Day

February 2nd

Today, we celebrate Groundhog Day, a superstition originating from Pennsylvania where if a groundhog emerges from its burrow on this day and sees its shadow, winter will go on for 6 more weeks. If it does not see its shadow, then Spring will arrive early.

Question



Walt Disney's Peter Pan

February 5th

Today, we celebrate the anniversary of the release of Walt Disney's Peter Pan on February 5th, 1953.

Question



National Pizza Day

February 9th

Today, we celebrate one of the most commonly liked foods across the globe – pizza! It is celebrated today because it is believed to be around the time pizza was discovered in Naples, Italy. How is a food “discovered”, you might ask? Simply by accidentally throwing some sauce and cheese on flatbread, and voila! You have pizza.

Question



Chinese New Year

Either January or February,
February 10th 2024

Today is the Chinese New Year, following the traditional lunisolar Chinese calendar. The date varies every year because it goes by the new moon which is different each year. The celebration lasts for 15 days and is full of vibrant colors and festivities to ring in the new year.

Question



National Inventors' Day

February 11th

Today is National Inventors' Day, a day we recognize the contributions of inventors. President Ronald Reagan declared this day the National Inventors' Day in 1983, in honor of the birthday of Thomas Edison.

Question



Super Bowl Sunday

Second Sunday in February

Today we celebrate Super Bowl Sunday, the annual league championship game of the National Football League, marking the final game of the NFL season.

Question



Valentine's Day

February 14th

Happy Valentine's Day! Today is a day to celebrate all those that we love, by sharing Valentine's Day cards and candy.

Question



President's Day

Third Monday in February

Today we honor all our presidents, past and present, for their service to our country. This date was chosen in honor of first President George Washington's birthday.

Question



Themed Winter Term - Answers

Day	Question	Answer
New Year's Day	<p>On New Year's Eve, a town decides to launch fireworks every 20 minutes starting from 8:00 PM until midnight. How many times will the fireworks be launched? What if they launched fireworks every 15 minutes? 12 minutes?</p> <p>Discuss strategies with a friend to find different ways to solve this problem.</p>	<p>Every 20 minutes: 13 times</p> <p>Every 15 minutes: 17 times</p> <p>Every 12 minutes: 21 times</p>
World Braille Day	<p>A Braille printing press is preparing a special edition book in honor of World Braille Day. The book consists of 200 pages, with each page having 25 lines of Braille text. If each line can accommodate 35 Braille characters, how many characters will be used to print the entire book? What if there were 400 pages?</p> <p>Discuss with a friend different strategies to solve this problem.</p>	<p>For 200 pages: 175,000 characters</p> <p>For 400 pages: 350,000 characters</p>

Day	Question	Answer
Martin Luther King Jr. Day	<p>In 1964, Martin Luther King Jr. was awarded the Nobel Peace Prize. He received a monetary award alongside the honor. Dr. King decided to use this money to further the civil rights movement. The total prize money was \$54,123.</p> <p>He gave \$18,041 of the amount to the Southern Christian Leadership Conference.</p> <p>After that, half of what was left was donated to various voter registration initiatives.</p> <p>He kept the remaining amount for other civil rights initiatives and campaigns.</p> <p>Discuss with a friend how you would figure out how much money Martin Luther King Jr. kept for civil rights initiatives.</p>	\$18,041 was kept for other civil rights initiatives
Black History Month	<p>A school library is setting up a special display for Black History Month featuring books by African American authors and about African American history. The librarian is organizing the books based on different categories.</p> <p>There are 120 books in total for the display.</p> <p>Half of the books are biographies of prominent African American figures. Half of the remaining books are about significant events in African American history.</p> <p>The rest of the books are a mix of African American literature and poetry.</p> <p>How many books of African American literature and poetry are included in the display? Discuss with a friend how you would go about solving this problem.</p>	30 books

Day	Question	Answer
Groundhog Day	<p>A science class decides to conduct an experiment on Groundhog Day to understand shadows. They set up a groundhog model and measure the length of its shadow at different times.</p> <p>At 8 AM, the shadow of the model is 24 inches long.</p> <p>Every hour, the shadow shortens by $\frac{3}{8}$ of an inch.</p> <p>The class takes its last measurement at 2 PM.</p> <p>What is the length of the shadow at 2 PM? Discuss with a friend how you would go about solving this.</p>	21 and $\frac{3}{4}$ inches, 21.75 inches
Walt Disney's Peter Pan	<p>In a game of hide and seek in Neverland, Peter Pan finds the Lost Boys in a certain order. The first boy is found after 6 minutes of searching. Each subsequent boy is found in half the time it took to find the previous one. If Peter finds the fourth Lost Boy, how many total minutes has he spent searching? Discuss with a friend how you would go about solving this problem.</p>	11 minutes and 15 seconds or 11.25 minutes

Day	Question	Answer
National Pizza Day	<p>To celebrate National Pizza Day, a group of friends decided to order several pizzas. They ordered different types of pizzas, and each pizza was cut into equal slices. They ordered 6 pepperoni pizzas, and each pizza was cut into eighths. They ordered 4 veggie pizzas, and each of these was cut into sixths. Each friend ate 4 pieces of the pepperoni pizzas and 2 pieces of the veggie pizzas.</p> <p>If they finished all of the pizzas, how many friends were there? Discuss with a friend how you would go about solving this problem.</p>	12 friends
Chinese New Year	<p>For Chinese New Year, a grandmother is giving out red envelopes, known as "hongbao," to her grandchildren as a symbol of good luck and prosperity. She has decided to distribute a total of \$200 among them.</p> <p>She gives her oldest grandchild \$20 more than she gives to each of the others.</p> <p>She has four grandchildren in total. The rest of the grandchildren receive the same amount each.</p> <p>How much money does each grandchild receive in their red envelope? Discuss with a friend how you would go about solving this problem.</p>	The oldest receives \$65 and the other 3 grandchildren receive \$45 each

Day	Question	Answer
National Inventors' Day	<p>For an Inventor's Day project, a class is building several model robots. Each robot requires 3 gears, 2 motors, and 4 light sensors. However, due to a limited supply, the class can only use a total of 65 gears, 47 motors, and 123 light sensors. What is the maximum number of complete robots the class can build with these supplies, assuming all parts must be used equally and no robot can be left incomplete?</p> <p>Discuss with a friend how you would solve this problem.</p>	21 robots
Super Bowl Sunday	<p>For their Super Bowl party, a family is making snack packs. Each snack pack will contain 14 pretzels, 16 chips, and 15 pieces of popcorn mix. If they want to make enough snack packs for their 15 guests, how many of each snack item do they need to prepare in total?</p> <p>Discuss with a friend how you would solve this problem.</p>	210 pretzels, 240 chips, 225 pieces of popcorn

Day	Question	Answer
Valentine's Day	<p>In a 4th grade class, students are participating in a Valentine's Day card exchange. Each student brings a certain number of cards to share with classmates, and everyone gets an equal number of cards.</p> <p>There are 24 students in the 4th grade class.</p> <p>Each student brings 5 Valentine's Day cards to the exchange.</p> <p>However, 4 of the students forget to bring their cards.</p> <p>To make up for the missing cards, the teacher brings 20 additional cards.</p> <p>How many Valentine's Day cards does each student receive during the exchange? Discuss with a friend how you would solve this problem.</p>	5 Valentine's Day cards
President's Day	<p>A group of students are making bookmarks to sell for a President's Day fundraiser. Each bookmark is designed with images and quotes from different U.S. Presidents. The students set a goal to represent as many presidents as possible.</p> <p>They decided to make 12 bookmarks for each of the first 12 presidents.</p> <p>For presidents 13 through 25, they made 13 bookmarks each.</p> <p>For presidents 26 through 36, they made 14 bookmarks each.</p> <p>And for presidents 37 through 45, they only made 15 bookmarks for each president.</p> <p>How many total bookmarks did the students make for their President's Day fundraiser? Discuss with a friend how you would solve this problem.</p>	602 bookmarks

Do you have a group of students who need a boost in math?

Each student could receive personalized lessons every week from our specialist one-on-one AI math tutor, Skye.




- ✓ Differentiated instruction for each student
- ✓ Aligned to your state's standards
- ✓ Scaffolded learning to close gaps

“We just had our first session and it went great! The kids really liked it and felt like they were learning! One even said he finally felt like math was making sense.”



Michelle Craig, Instructional Coach,
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