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4th grade gifted math worksheets printable free pdf

Improve your students' math skills and help them learn how to calculate fractions, percentages, and more with these word problems. The exercises are designed for students in the seventh grade, but anyone who wants to get better at math will find them useful. The sections below contain two-word problem worksheets for students, in section Nos. 1 and 3. For ease of grading, identical worksheets, including the answers, are printed in section Nos. 2 and 4. More detailed explanations of some of the problems are also provided within the sections. Find out what birthday cakes, grocery stores, and snowballs have in common with these fun word problems. Practice calculating fractions and percentages with problems such as: When the birthday cake was about to be served, you were told you could have 0.6, 60%, 3/5, or 6%. Which three of the choices will give you the same size portion? Explain to students that the correct answer is .6, 60%, and 3/5 because all of these equal 60 percent, or six out of 10, or 60 parts out of 100. By contrast, 6 percent means just that: only six pennies out of 100, six parts out of a 100, or six tiny slivers of cake out of 100. Find the solutions to the word problems that students tackled in the first math worksheet. The second problem, and answer, state: Problem: 4/7 of the birthday cake was eaten on your birthday. The next day your dad ate 1/2 of what was left. You get to finish the cake, how much is left? Answer: 3/14 If students are struggling, explain that they can easily find the answer by multiplying fractions as follows, where "C" stands for the portion of cake that is left. They first need to determine how much cake was left after the birthday Then they need to see what fraction was left the next day after dad gobbled up some more of the cake: $C = 3/7 \times 1/2C = 3 \times 1 / 7 \times 2C = 3 / 14$ So 3/14 of the cake was left over after dad had a snack the next day. Have students learn how to calculate a rate of return and how to divide a large area into smaller lots with these math problems. To help students, go over the first problem as a class: Sam loves basketball and can sink the ball in the net 65% of the time. If he takes 30 shots, how many will he sink? Explain to students that they simply need to convert 65% to a decimal (0.65), and then multiply that number by 30. Find the solutions to the word problems students have tackled in the second math worksheet. For the first problem, demonstrate how to work out the solution if students are still having difficulty, where "S" equals shots made: So Sam made 19.5 shots. But since you can't make half a shot, Sam made 19 shots if you don't round up. Normally, you'd round up decimals five and greater to the next whole number, which would be 20 in this case. But in this rare case, you'd round down because, as noted, you can't make half a shot. Are you looking for enriching independent math activities for your gifted students, math loving kids, and/or early finishers? I have added enrichment options and projects to most of my posts in the How To Teach Key Math Concepts section. Here are a few of my other favorites to help them develop their spatial reasoning, critical thinking, and logic skills. Printable Activities Challenge Problems Open Middle is a great source of challenge problems at every grade level. Esti Mysteries (students might also like making their own) Online Activities The Daily Set Puzzle and Karma Puzzle Beast Academy online demo Transum Puzzles Mathigon. I recently discovered this amazing resource as one of my most gifted 5th grade students uses it often in his free time at home. While Mathigon has wonderful interactive lessons for 6th grade and up, the Polypad can be used by much younger students. It has colorful easy to use virtual tiles including polygons, polyominoes, tangrams, Pentrose tiles, pentagon tilings, fractals and 3D solids that students can use to make and save their own designs. It has other virtual manipulatives including number tiles, fraction bars, and fraction circles. It has playing cards, dot cards, dominoes, coins and spinners. And that is only the tip of the iceberg of what the polypad has to offer. I will soon write a whole post about Mathigon, but for now trust me and check it out! Visual Spatial Puzzles If you're willing to buy some physical puzzles, here are some of my favorites! IQ Fit game solved by one of my students Kanoodle is another game similar to IQ Fit. It has the same idea of fitting the pieces but also has 3D pyramid puzzles which some of my students loved even more. There are several variations of this one including Kanoodle Jr , Kanoodle Extreme, Kanoodle Head to Head, and Kanoodle Gravity. 3D pyramid Kanoodle puzzle built by one of my students Set can be played as a group game but is also an excellent independent activity. You can buy the cards or play online here Physical Logic Puzzles Animal Logic. This game for 1 player from Fat Brain Toys comes with 18 colorful wooden animals, a game board, and 60 puzzle cards that increase in difficulty. The player places the animals on the game board to match each card, then must make each animal cross the river one at a time. Each animal can only follow an animal of the same species and color. Chocolate Fix is a logic game from Think Fun with 40 challenge cards and a tray of 9 play chocolates to arrange according to each challenge. Rush Hour is a car themed "traffic jam" logic game also from Think Fun. It too comes with 40 challenge cards from beginner to expert level. It has won many awards including Mensa Select. Sumoku Interesting Math Books My GT students love looking through math challenge/puzzle books and choosing the topics that interest them. This is one of the best independent activities for GT students as it requires no set up and can allow them something to do in whatever amount of time they have. Here are a few of their favorites (only recommending books I have actually used and liked.) Math For Smarty PantsMathmagicMathamazingThe Everything Kids' Math Puzzle BookThe Adventures of Penrose the Mathematical CatGrowing Patterns: Fibonacci in Nature (see here for a whole post about teaching Fibonacci sequence)Biographies or historical fiction about famous mathematicians are also fun for the kids to read. I have a post of suggestions here They could do a poster or project to teach the rest of the class about their mathematician. For a simpler and shorter activity take a picture of their mathematician using the Chatterpix Kids app and record an audio clip to make it talk! Creative Activities and Projects Many GT students enjoy creating their own math games and task cards for other students to play or solve. I have had great success giving them materials such as index cards, dice, spinners, posterboard, and markers as well as examples of the types of problems to include. They have come up with fabulously creative ideas! Other students enjoy making their own anchor charts, writing and illustrating math stories or even creating strategy guides for other kids. This is a great way to encourage GT students to think through problem solving steps that they often do mentally or automatically, and teach them to explain their thinking. Finally, you might be surprised how many GT students tell me they would really like free time just to explore manipulatives. We often think of manipulatives such as pattern blocks, Cuisenaire Rods, pentominoes, fraction tiles, and centimeter cubes as being for our struggling students. However, many GT students have very creative ideas for using the manipulatives and are able to discover many concepts for themselves while using them. (I had a second grader figure out the formula for volume just by building with centimeter cubes.) Give them a chance to play and see what they can do! (The polypad mentioned in the online activities session has absolutely incredible virtual manipulatives) Kids want math to be both fun and challenging. Gifted children may have problem-solving and critical-thinking abilities that go beyond their grade level. These are not monotonous factual math skill practice books, but encourage creative thinking and tackle life skills. Students need to show their thinking and will truly triumph when they discover the solutions for themselves. Try these ready-made homework workbooks (or use in the classroom) to enhance your mathematics curriculum. Most teachers know that they have students who are unmotivated to do the work or to make progress in reaching the desired learning goals. Disengaged students are often the source of discipline problems in the classroom. In our efforts to reach and teach all students, there are many challenges to teachers today. As we try to meet the needs of every demographic of students, there is one segment that is often overlooked: gifted students. While it is true that most gifted students will do well without any special help, it is also true that they will benefit from differentiated learning that fits their needs. Gifted students, perhaps more than any other demographic, have the ability to become self-motivated, independent learners. We want to keep every student engaged with learning, but how do we accomplish this daunting task? In an age where we are so focused on test scores and making sure every student is proficient at given tasks, gifted students are often put on the back burner-not intentionally, but simply because of a lack of time and planning for these students. Engaged students, no matter what their abilities, bring joy to the classroom. There is a quote that is popular in education: "Education is not the filling of a pail, but the lighting of a fire." Although the original author of this statement is unknown, the idea is something that appeals to most of us. How can we become the ignitor of fires in our students? Allow students choices to show what they have learned. Rather than taking a pencil-and-paper test or writing a paragraph, students could choose to show their knowledge and understanding by completing a project or by teaching other students. "Projects" may include writing poems, making posters and collages, creating podcasts or webpages, and so on. The simple statement "tell me more" invites students to delve a little deeper to display their learning to you. Offer a variety of texts and ask higher-level questions to challenge students to increase reading levels and to make connections for themselves between reading and learning. Nonfiction books on particular subjects can often be found with multiple texts on various reading levels. Your class can study one topic using a variety of texts that can be read by students at their own reading levels. It can be challenging to find fiction novels that are suitable for younger readers with higher reading levels. Enlist the help of your school or public librarians. You might be surprised to learn that graphic novels, while offering smaller blocks of text, often are written on higher reading levels. Encourage students to connect new learning to prior knowledge and to their own personal experiences. Incorporate technology in your lessons. Most kids today are hooked on technology, and this can be a powerful motivator. The variety of subjects and reading levels offered by the Internet can provide a wealth of learning options, especially for gifted students. SMART Boards, iPods, software programs, and Internet searches can extend and enrich classroom lessons. While in the past, teachers often used newspapers and magazines to support classroom teaching, now technology gives students access to an incredible range of learning opportunities. Help students set goals for themselves. Research has shown that setting goals has a powerful effect on student confidence and achievement. Gifted students are often perfectionists and need help setting realistic goals for themselves. Instead of having a murky and elusive goal of creating the "perfect" project, help students break the project down into steps so that they can see themselves advancing as they complete the work. For instance, the first step might be creating a KWL chart to document what they already know, what they want to learn, and at the end, what they did learn from doing the project. In the research phase, they could create a list of sources they are using and give reasons why they believe each source is a reputable and authoritative one. For the final product, help students create a rubric to grade their project. Have they met the criteria needed to get the "perfect" grade? If they have a guideline of the ideal end product, it will give them the knowledge and confidence they need to create it. Allow students the opportunity to reflect on their learning and to give feedback about lessons. How much did they understand about the subject? What are they confused about? What interested them? What would they still like to learn about the topic? How could they continue to learn about the topic on their own, and how would they demonstrate their learning? You could ask them to write a paragraph after completing a unit or fill out an exit ticket. Exit tickets are a simple tool that can allow students and teachers to communicate to each other about what is and isn't working in the classroom. Asking questions about learning can allow students to give teachers feedback about the efficacy of teaching methods as well as student interests and their engagement in school. Reinforce students' confidence in themselves. Research by Lucas (1990), Weinert, and Kluewe (1987) shows that teachers should give positive feedback frequently to support students' own beliefs that they can do well. We can assign tasks that are neither too easy nor too difficult. If teachers can help students find personal meaning and value in their learning, they may light that spark that will lead to students becoming self-motivated and life-long learners.

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