Fact Families

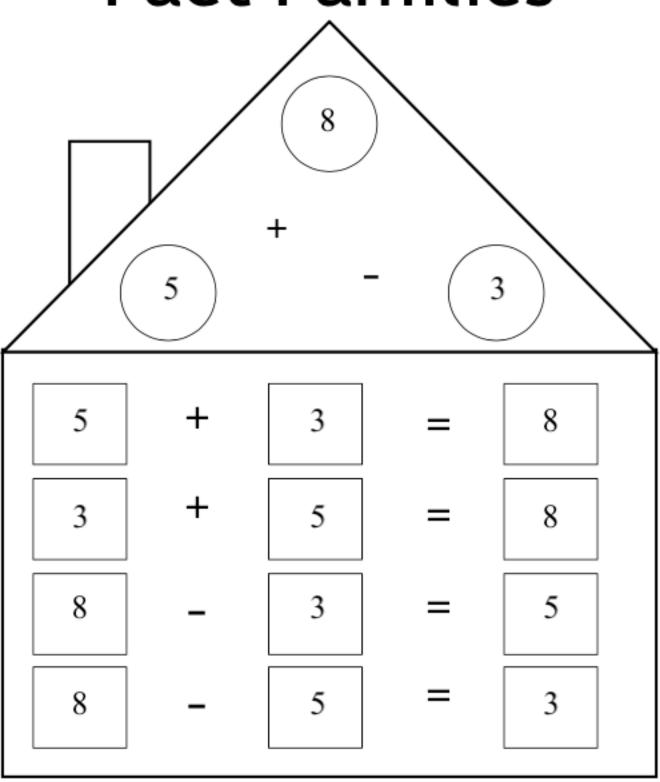
| Fact Families | | |
|---------------|---|--|
| Grade: 2nd | | Subject: Math |
| Materials: | Fact family worksheet, magnetic numbers*, number | Technology Needed: Projector, Smart board |
| squares | | |
| *If availab | le. | |
| Note: 24 le | earners in classroom make at least 25 copies of | |
| worksheet | S | |
| Instruction | nal Strategies: | Guided Practices and Concrete Application: |
| Direct | t instruction | Large group activity Hands-on |
| Guide | ed practice cooperative learning | □ Independent activity □ Technology integration |
| Socrat | tic Seminar | Pairing/collaboration Imitation/Repeat/Mimic |
| Learn | ing Centers 🛛 PBL | Simulations/Scenarios |
| Lectur | | |
| Techn | nology integration 🗌 Modeling | Other (list) |
| Other | | Explain: |
| | | |
| Chan da | N | Differentiation |
| Standard(s | - | Differentiation |
| | se mental strategies to fluently add and subtract | Below Proficiency: Provide supplementary materials and visual aids to assist the |
| within 20 | | Provide supplementary materials and visual aids to assist the |
| Objective(| - | learners in arranging and rearranging the numbers in the fact family. |
| - | of the lesson learners will be able to create four different | rariiiy. |
| number se | ntences using addition and subtraction of the same three | Above Proficiency: |
| numbers. | | Utilize larger numbers for fact families. Can they create their own |
| _ | | fact family? |
| | axonomy Cognitive Level: | |
| Apply | | Approaching/Emerging Proficiency: |
| | | Follow lesson plan expectations. |
| | | |
| | | Modalities/Learning Preferences: |
| | | Visual: Use pictures of objects to represent each number in the fact |
| | | family. For example if the fact family consists of five, three and eight |
| | | have groups of five, three and eight stars up on the board to illustrate |
| | | the number to quantity correspondence. |
| | | |
| | | Auditory: Go through the process of building a fact family verbally. |
| | | Kinesthetic: Provide number squares with the three numbers on them |
| | | so that the learner can physically manipulate the three numbers and |
| | | practice rearranging them into four different number sentences. |
| | | |
| | | Tactile: Have learners use counting chips to arrange and rearrange the |
| | | number sentences before writing them out. |
| Classroom | Management- (grouping(s), movement/transitions, etc.) | Behavior Expectations- (systems, strategies, procedures specific to |
| Learners w | vill be asked to sit at their table spots and wait until they are | the lesson, rules and expectations, etc.) |
| told to flip | over their math sheet. The sheets will be placed at their | Learners will work at a voice level one. If they need help they will |
| | s prior to the beginning of the lesson so that they can follow | first think back to what we learned, second ask a friend, third raise |
| - | rners will be expected to put their hands on their head | their hand to ask for teacher assistance. |
| - | are finished working. | |
| Minutes | Procedures | |
| | Set-up/Prep: | |
| | Have blank fact family set up on the board. (Confirm that sr | |
| | Fill out first three fact family houses on the worksheets price | |
| 5 mins | Engage: (opening activity/ anticipatory Set – access prior I | |
| | "Good morning learners! Today we are going to practice building fact families. What do you know about fact families?" | |
| | Provide time for learners to respond, gauge prior knowledge of fact families or lack thereof. | |
| | | |
| | "Let's do an example together, if you look up here on the b | |
| | "Let's do an example together, if you look up here on the b have five stars here, and three stars here. What happens w | hen we add those together? Five plus three is eight. Now these three |
| | "Let's do an example together, if you look up here on the b have five stars here, and three stars here. What happens w numbers, five, three, and eight, can be used in a lot of diffe | hen we add those together? Five plus three is eight. Now these three rent ways to write a lot of different math sentences right? So what's |
| | "Let's do an example together, if you look up here on the b have five stars here, and three stars here. What happens w numbers, five, three, and eight, can be used in a lot of diffe another way we could organize this? We have five plus three | hen we add those together? Five plus three is eight. Now these three rent ways to write a lot of different math sentences right? So what's se equals eight, how else can we get eight using those same numbers? If |
| | "Let's do an example together, if you look up here on the b have five stars here, and three stars here. What happens w numbers, five, three, and eight, can be used in a lot of diffe another way we could organize this? We have five plus three five plus three equals eight, three plus five also equals eight | hen we add those together? Five plus three is eight. Now these three rent ways to write a lot of different math sentences right? So what's re equals eight, how else can we get eight using those same numbers? If t. Now let's see what happens when we subtract from eight. Eight minus |
| | "Let's do an example together, if you look up here on the b have five stars here, and three stars here. What happens w numbers, five, three, and eight, can be used in a lot of diffe another way we could organize this? We have five plus three five plus three equals eight, three plus five also equals eight | hen we add those together? Five plus three is eight. Now these three rent ways to write a lot of different math sentences right? So what's e equals eight, how else can we get eight using those same numbers? If t. Now let's see what happens when we subtract from eight. Eight minus with these three numbers, what is it? Eight minus three equals five. Look |

Fact Families

| | Fact | Families | |
|--|---|---|--|
| 5-10 mins | Explain: (concepts, procedures, vocabulary, etc.) "You all have a sheet with four houses on it. Each of those take those three numbers and create two addition and tw write your name at the top of the page. When you're finis done." Provide a few moments for the learners to write their nar "Alright learners let's go ahead and get rolling! Let's make simple one. In the first house, the first addition is going to answer? 3 plus 7 equals 10! Strong work. Now we are goi going to be 10 minus 3 equals what? 7! I want you to try a | e houses has three numbers in the roof to get you started. I want you to vo subtraction number sentences. Before you get started I want you to shed writing your name put your hands on your head to show me you're | |
| | second, ask a friend, and if you're still confused ask a teacher." "When you're finished bring your completed sheet to me." *Example sheet linked at end of lesson plan | | |
| 10-15 mins | Explore: (independent, concreate practice/application with relevant learning task -connections from content to real-life experiences, reflective questions- probing or clarifying questions) Give learners time to begin work on their papers. Walk around classroom to monitor progress. https://www.teacherspayteachers.com/FreeDownload/FREE-Fact-Family-Worksheets-1843538 | | |
| 5 mins | that we're finished, make sure you bring your completed | up and transition to next activity): learn about fact families today? How many number sentences can we make when we start with three numbers? Now ished, make sure you bring your completed sheets to me. Put away your writing utensils." vity' is lunch. At this point the learns will line clean up their supplies, push in their chairs, and line up at the door | |
| Formative Assessment: (linked to objectives) Progress monitoring throughout lesson- clarifying questions, check- in strategies, etc. | | Summative Assessment (linked back to objectives) End of lesson: Collect worksheets at the end of the lesson to see if the learners comprehended the process of building a number family. Were they | |
| Do a few practice problems with the entire class and have them respond verbally to questions. Walk around in the classroom while they are completing their own problem sets and redirect if learners are struggling. Did the instruction portion work or are they going to need more support? | | successful? Can they create four different number sentences using the same three numbers? If applicable- overall unit, chapter, concept, etc.: | |
| Consider | ration for Back-up Plan: | | |
| squares fo | ners are still very confused, make sure and have number r them to manipulate already prepared and available to n the even that they need more support and practice. | | |
| Reflection | (What went well? What did the students learn? How do y | ou know? What changes would you make?): | |

Fact Families

Fact Families



©CarlyAndAdam2016