Learning Division


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|  | some examples of multiplication problems the students may know. The students must raise their hand to say their fact (ex. $2 \times 5=10$, $3 \times 4=12$ ). |  |
| :---: | :---: | :---: |
| 20-30 | Explain: (concepts, procedures, vocabulary, etc.) <br> Once the students have given a few multiplication facts tell them that they will now be learning the reverse of multiplication; division. Explain that division is simply reversing multiplication problems so just how $5 \times 4=20$ we can reverse it and take the answer 20 and divide it by one of the numbers to get the other number. Give some examples of how this works with other problems as well. Next, have the students practice a few division problems by giving them a white board, marker, and eraser. Write a division problem on the board such as $6 / 3=$ and see if the students can solve it on their white board. Encourage them to think about multiplication and 3times what gives them six. Also encourage them to talk to their peers about their answers as well. Practice a few division problems and discuss them, and then try a word problem such as Bob has ten apples, puts his apples in rows of two, how many apples are in each row. Have the students see if they can figure out this word problem. A few more can be tried to make sure the students understand. Each word problem should be discussed and pictures can be drawn for understanding. |  |
| 20 | Explore: (independent, concreate practice/application with relevant learning task -connections from content to real-life experiences, reflective questions- probing or clarifying questions) <br> Explain to the students that they will now be creating their own division word problems. Have them think about the math fact they want to use and when they are ready they can come up and tell you their math fact. If it is correct hand them a piece of paper and tell them to return to their desk and write a word problem for their fact. During this time, the teacher will walk around the room answering questions and helping students as they write their word problems. As the students finish writing their word problems have them draw a picture for it and color it in. |  |
| 5 | Review (wrap up and transition to next activity): <br> To wrap up the lesson, walk around the room and ask each student individually to explain their word problem and thinking to you. Next, stand at the front of the classroom and get their attention. Ask the students what division is, how we divide, and if they have any questions. If not, tell the students that the next lesson will begin in 3 minutes. Have the students either hand in their assignment if they are done, or save it for later. Transition to the next lesson by having the students seated in their desks waiting for the teacher to begin. |  |
| Formativ Progre checkin strat The stud during cl overall u pictures. <br> Consid If there is goes too dropped lesson is | Assessment: (linked to objectives) monitoring throughout lesson- clarifying questions, <br> ies, etc. <br> ts will be assessed on their answers to questions asked s, the answers they write on their white boards, and their erstanding of division by creating their own division fact <br> ation for Back-up Plan: <br> ood discussion during the guided practice and the lesson ng, the last part of creating their own word problem will be his part will then be done the next day. The goal of the get the students to understand division. | Summative Assessment (linked back to objectives) <br> End of lesson: The students will be assessed on their illustration of division word problems within 100 by creating their own word problems and drawings for equations with an unknown number. <br> If applicable- overall unit, chapter, concept, etc.: $\mathrm{N} / \mathrm{A}$ this lesson is simply a starter lesson to the concept of division. |

## Reflection (What went well? What did the students learn? How do you know? What changes would you make?):

I think this lesson plan went as good as to be expected. I say this because many of the students in the class are at beginning stages when it comes to learning the concept of division. They understand that multiplication is the reverse of division and that it can be used to help solve division problems, but they aren't quite sure how it works yet. With this in mind I tried my best to make this a practicing division lesson so the students could work on their division skills as well as be introduced to word problems containing division. With this in mind there were many things that went well during the lesson. The students enjoyed working with the white boards because they had the opportunity to write down the problem and try it for themselves instead of simply listening to me teach it. The white boards were also a great tool for the students to use to draw a picture of their thinking to figure out the problem. I even enjoyed using the white boards because I could assess the students work and thinking as I walked around the room. Another pro of the lesson was having me up at the front of the room helping the students go through the correct answers by providing a variety of ways to figure out the problems. The students also helped with this piece because they could tell me the different methods each of them used to figure out the problem. The con of the lesson was the part where the students made their own division problems. Initially I told the students what to do, gave them a piece of paper, and let them begin, but this didn't work too well. I could see many of them were struggling, so I gained their attention and wrote steps on the board in the form of an example. It went like this: 1 . Write a multiplication equation. 2. Flip your multiplication equation into division. 3. Draw a picture of your equation. 4. Write a story to go with your equation. After I wrote this on the board, many of the students knew what to do and they had the visual of the steps in case they forgot.

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Although I am glad I made this change, I think some of the students were not yet ready for this step and they need more instruction on division. I do, though think that this lesson was great exposure for the students to get ready to solve division word problems. In the future, I will be sure to put clearer instructions up on the board right away and to do this lesson in small groups! Small groups would be very beneficial to this lesson because it would allow the students who need a bit of extra help with division to get what they need. Small groups would also allow for greater discussion and understanding among the students. Doing this as a whole group lesson was a bit chaotic because of all of the needs of the students, so small groups would help this problem out immensely. Overall, I think this lesson served its purpose of helping the students learn and practice their division because I was able to see their understanding in the work they handed in. In each students work I could see their thought process, their equation, their pictures, and their word problem, and for the most part, all of them did pretty well.

