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| **Multiplying Fractions** | | | |
| Multiplies a fraction by a whole number or vice versa  3 × 3  “I know this is equal to 3+ 3+ 3,  which is the same as  (3 + 3 + 3) + (+ + )  = 9 +  = 9 + 1  = 10  Because changing the order doesn’t change the product, I know that  3× 3 = 10 as well.” | Multiplies fractions and/or mixed numbers using a model  “To multiply × 2, I drew an array  showing 2. Then, I partitioned it into  3 equal parts and shaded one part differently.    I rearranged the shaded pieces to compare them to 1 whole.      I can see that are shaded.  So, × 2= .” | Multiplies fractions and/or mixed numbers symbolically  “To multiply × 2, I’m first going to  write the mixed number as an improper fraction. Then, I can just multiply the numerators and the denominators.  × 2= ×  = ” | Solves problems that involve multiplying fractions and/or mixed numbers  “Toby has 32yd of electrical cable.  They use of the cable on a wiring  project. How many yards of cable are left?  Since Toby uses of the cable,  I know that remain.  × 32= ×  =  = 26  There are 26 yd of cable left.” |

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| **Observations/Documentation** | | | |
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