Whole Number x Mixed Number Models
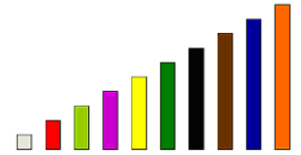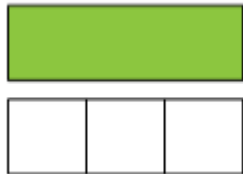
Materials: cuisenaire rods

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1. Write a story context to illustrate 3 x 2⅓.

2. Use cuisenaire rods to model and solve the problem.
    Decide: - Which rod will have the value of 1?
               - Which rod will represent ⅓?

3. Show your work using pictures, numbers and words.

4. Write and solve three more word problems in which a whole number is multiplied by a mixed number. Show and explain how you model each problem using cuisenaire rods.

Sample solution: Jack poured 3 jugs of juice. Each jug contained 2 1/3 liters of juice. How much juice did Tom pour?

I gave the light green rod the value of 1, so the white rod represents 1/3.

I modeled 3 x 2 1/3 using the green and white rods. I joined the three white rods to make another green rod, giving me 7 green rods. 3 x 2 1/3 = 7