Name ___________________________  Date____________________

1. Solve using a tape diagram.

   a. \( \frac{1}{3} \) of 18

   b. \( \frac{1}{3} \) of 36

   c. \( \frac{3}{4} \times 24 \)

   d. \( \frac{3}{8} \times 24 \)

   e. \( \frac{4}{5} \times 25 \)

   f. \( \frac{1}{7} \times 140 \)

   g. \( \frac{1}{4} \times 9 \)

   h. \( \frac{2}{5} \times 12 \)

i. \( \frac{2}{3} \) of a number is 10. What’s the number?

j. \( \frac{3}{4} \) of a number is 24. What’s the number?
2. Solve using tape diagrams.
   
a. There are 48 students going on a field trip. One-fourth are girls. How many boys are going on the trip?

   b. Three angles are labeled below with arcs. The smallest angle is $\frac{3}{8}$ as large as the $160^\circ$ angle. Find the value of angle $a$.

   c. Abbie spent $\frac{5}{8}$ of her money and saved the rest. If she spent $45, how much money did she have at first?

   d. Mrs. Harrison used 16 ounces of dark chocolate while baking. She used $\frac{2}{5}$ of the chocolate to make some frosting and used the rest to make brownies. How much more chocolate did Mrs. Harrison use in the brownies than in the frosting?