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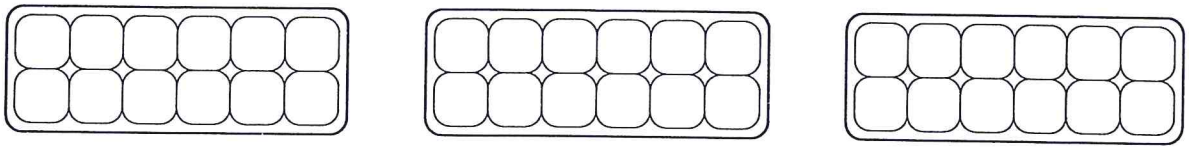
Fractions & More Fractions page 1 of 2

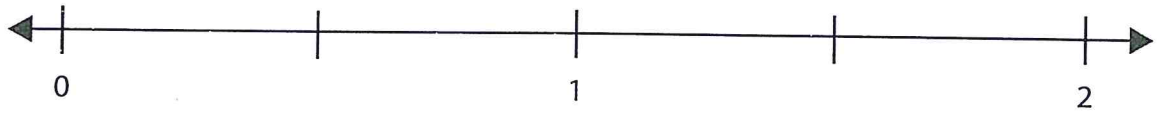
1 Ethan used an egg carton model to add fractions. Draw eggs in the cartons to show and solve the problem. Then fill in the blank to show the answer.



$\frac{1}{2} + \frac{1}{6} =$

2 Put the following numbers in order on the number line below.

$\frac{1}{2}$ $1\frac{1}{2}$ $\frac{3}{5}$ $\frac{1}{4}$ $1\frac{3}{4}$ $1\frac{1}{4}$ $\frac{7}{8}$



3 Maria is writing as many different addition and multiplication equations as she can for $2\frac{2}{8}$. Her rule is that all the fractions in each equation must have a denominator of 8.

a Here are the equations Maria has written so for. Fill in the bubble beside each equation that is true.

- ○ $2\frac{2}{8} = 1 + 1 + \frac{2}{8}$
- ○ $2\frac{2}{8} = \frac{8}{8} + \frac{10}{8}$
- ○ $\frac{5}{8} + \frac{5}{8} + \frac{5}{8} + \frac{4}{8} = 2\frac{2}{8}$
- ○ $18 \times \frac{1}{8} = 2\frac{2}{8}$

b Write at least four more addition or multiplication equations for $2\frac{2}{8}$ in which all the fractions have a denominator of 8.

(continued on next page)

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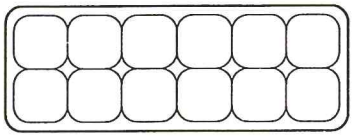
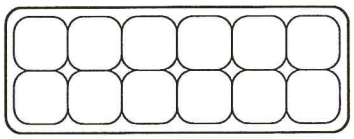
4 Calvin and Leah are playing a game that has them draw fraction cards to add up to numbers that fill a 12-egg carton. Calvin had $\frac{1}{3}$ of his egg carton full when he chose a card with $\frac{8}{12}$ on it. He says he will fill his egg carton. Do you agree or disagree? Why? Use a labeled sketch in the egg carton diagram below to help explain your answer.



5 Leah had $\frac{4}{6}$ of her egg carton full when she chose the $\frac{5}{12}$ card. Can she fit $\frac{5}{12}$ in this egg carton? Why or why not? Use a labeled sketch in the egg carton diagram below to help explain your answer.



6 **CHALLENGE** Imagine you are playing the game with egg cartons that hold 18 eggs, and the fraction cards refer to 18 eggs instead of 12 eggs. (For example, if you draw the $\frac{1}{2}$ card, that means half of 18, not half of 12.)

a If you have $\frac{2}{3}$ of your first 18-egg carton full, how many more eggs will fit in that carton? What fraction card will you need to draw to fill the first carton exactly?

b You have $\frac{1}{3}$ of your second 18-egg carton full when you select the $\frac{5}{6}$ card. Can you use this card to place more eggs in the second carton, or will you have to use your third carton instead?