Name _____ Date _____

1. Kim and Courtney share a 16-ounce box of cereal. By the end of the week, Kim has eaten $\frac{3}{8}$ of the box, and Courtney has eaten $\frac{1}{4}$ of the box of cereal. What fraction of the box is left?

There is $\frac{3}{8}$ of the box left.

16 oz.

eaten	left ?

$\frac{3}{8} + \frac{1}{4}$

$\frac{3}{8} + \frac{1}{4}$

$\left(\frac{3}{8} = \frac{3}{8}\right) + \left(\frac{1}{4} \overset{\times 2}{=} \frac{2}{8}\right)$

$\frac{3}{8} + \frac{2}{8} = \frac{5}{8}$

$1 - \frac{5}{8}$

$\frac{8}{8} - \frac{5}{8} = \frac{3}{8}$

$\frac{3}{8}$ of 16

$\frac{3 \times \overset{2}{16}}{\underset{1}{8}} = 6$ oz

2. Mathilde has 20 pints of green paint. She uses $\frac{2}{5}$ of it to paint a landscape and $\frac{3}{10}$ of it while painting a clover. She decides that, for her next painting, she will need 14 pints of green paint. How much more paint will she need to buy?

3. Jack, Jill, and Bill each carried a 48-ounce bucket full of water down the hill. By the time they reached the bottom, Jack's bucket was only $\frac{3}{4}$ full, Jill's was $\frac{2}{3}$ full, and Bill's was $\frac{1}{6}$ full. How much water did they spill altogether on their way down the hill?

4. Mrs. Diaz makes 5 dozen cookies for her class. One-ninth of her 27 students are absent the day she brings the cookies. If she shares the cookies equally among the students who are present, how many cookies will each student get?

$\frac{1}{9} \times 27 = \frac{27}{9} = 3$

5 dozen =
5 × 12 = 60 cookies

$\frac{60}{24} \div 12\frac{5}{2} =$

per = ÷

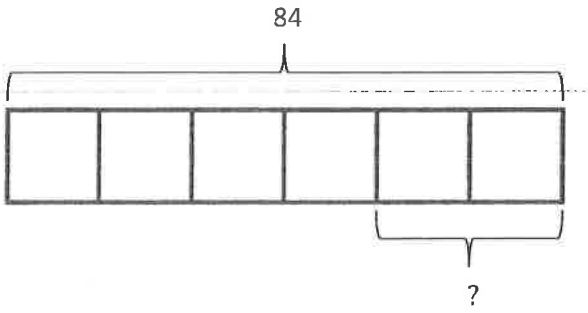
$2\overline{)5}$ $2\frac{1}{2}$

4

1

$= 2\frac{1}{2}$ cookies per student.

5. Create a story problem about a fish tank for the tape diagram below. Your story must include a fraction.



Name _____ Date _____

1. A baseball team played 32 games and lost 8. Katy was the catcher in $\frac{5}{8}$ of the winning games and $\frac{1}{4}$ of the losing games.

   a. What fraction of the games did the team win?

32	
winning	losing
24	8
$\frac{3}{4}$	$\frac{1}{4}$

$\frac{8}{32} = \frac{1}{4}$

The team won $\frac{3}{4}$ of their games.

   b. In how many games did Katy play catcher?

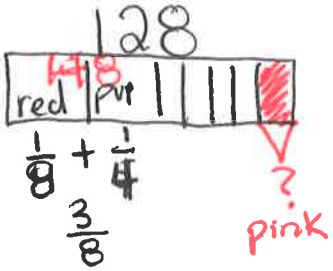
winning $= \frac{5}{8}$ of $24 = \frac{5 \times 24^{3}}{8_{1}} = 15$

losing $= \frac{1}{4}$ of $8 = \frac{1 \times 8^{2}}{4_{1}} = 2$

$15 + 2 = 17$

Katy played 17 games as catcher.

2. In Mrs. Elliott's garden, $\frac{1}{8}$ of the flowers are red, $\frac{1}{4}$ of them are purple, and $\frac{1}{5}$ of the remaining flowers are pink. If there are 128 flowers, how many flowers are pink?



$\frac{1}{8} + \frac{1}{4}$

$\frac{3}{8}$

$\frac{1}{8} + \frac{1}{4} = \frac{1}{8} + \frac{2}{8} = \frac{3}{8}$

$\frac{3}{8}$ of $128 = \frac{3 \times 128^{16}}{8_{1}} = 48$

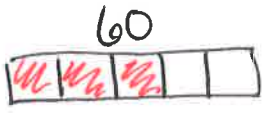
$128 - 48 = 80$

$\frac{1}{5}$ of $80 = \frac{80}{5} = 16$

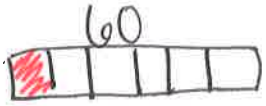
16 pink flowers

3. Lillian and Darlene plan to get their homework finished within one hour. Darlene completes her math homework in $\frac{3}{5}$ hour. Lillian completes her math homework with $\frac{5}{6}$ hour remaining. Who completes her homework faster, and by how many minutes?

   Bonus: Give the answer as a fraction of an hour.

D 

$\frac{3}{5}$ of $60 = \frac{3 \times 60}{5} = 36$ $\quad 36 - 10 = 26$

L 

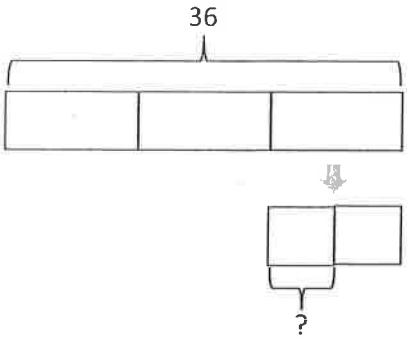
$\frac{1}{6}$ of $60 = \frac{1 \times 60}{6} = 10$

Lillian was 26 minutes faster than Darlene

$\frac{26}{60} = \frac{13}{30}$

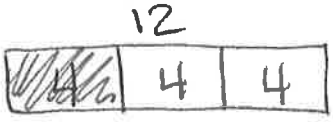
4. Create and solve a story problem about a baker and some flour whose solution is given by the expression $\frac{1}{4} \times (3 + 5)$.

5. Create and solve a story problem about a baker and 36 kilograms of an ingredient that is modeled by the following tape diagram. Include at least one fraction in your story.



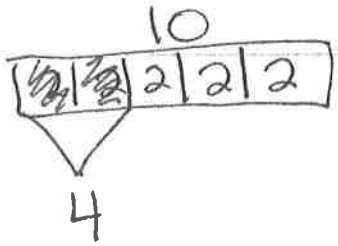
6. Of the students in Mr. Smith's fifth-grade class, $\frac{1}{3}$ were absent on Monday. Of the students in Mrs. Jacobs' class, $\frac{2}{5}$ were absent on Monday. If there were 4 students absent in each class on Monday, how many students are in each class?

S



$3 \times 4 = 12$ students

J



$2 \times 5 = 10$ students