Name _____   Date _____

1. Write expressions to match the diagrams. Then, evaluate.

17 + 4

?

?

$\frac{4}{7} + \frac{8}{3}$
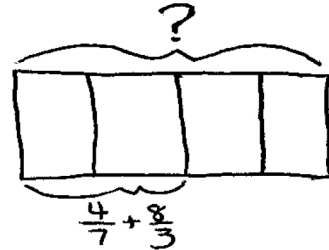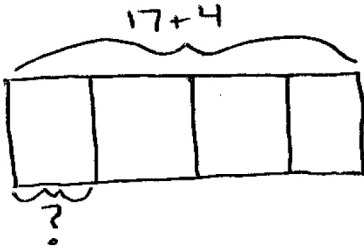
2. Circle the expression(s) that give the same product as $6 \times \frac{3}{8}$. Explain how you know.

$8 \div (3 \times 6)$ $3 \div 8 \times 6$ $(6 \times 3) \div 8$ $(8 \div 6) \times 3$ $6 \times \frac{8}{3}$ $\frac{3}{8} \times 6$

3. Write an expression to match, and then evaluate.

a. $\frac{1}{8}$ the sum of 23 and 17.

b. Subtract 4 from $\frac{1}{6}$ of 42.

c. 7 times as much as the sum of $\frac{1}{3}$ and $\frac{4}{5}$.

d. $\frac{2}{3}$ of the product of $\frac{3}{8}$ and 16.

e. 7 copies of the sum of 8 fifths and 4.

f. 15 times as much as 1 fifth of 12.

4. Use <, >, or = to make true number sentences without calculating. Explain your thinking.

a. $\frac{2}{3} \times (9 + 12)$ ◯ $15 \times \frac{2}{3}$

b. $\left(3 \times \frac{5}{4}\right) \times \frac{3}{5}$ ◯ $\left(3 \times \frac{5}{4}\right) \times \frac{3}{8}$

c. $6 \times \left(2 + \frac{32}{16}\right)$ ◯ $(6 \times 2) + \frac{32}{16}$

5. Fantine bought flour for her bakery each month and recorded the amount in the table to the right. For (a–c), write an expression that records the calculation described. Then, solve to find the missing data in the table.

a. She bought $\frac{3}{4}$ of January's total in August.

b. She bought $\frac{7}{8}$ as much in April as she did in October and July combined.

Month	Amount (in pounds)
January	3
February	2
March	$1\frac{1}{4}$
April	
May	$\frac{9}{8}$
June	
July	$1\frac{1}{4}$
August	
September	$\frac{11}{4}$
October	$\frac{3}{4}$

c. In June, she bought $\frac{1}{8}$ pound less than three times as much as she bought in May.

d. Display the data from the table in a line plot.

e. How many pounds of flour did Fantine buy from January to October?

Answer Key

1. $5\frac{1}{4}$; expressions will vary.

   $6\frac{10}{21}$; expressions will vary.

2. $(6 \times 3) \div 8$ and $\frac{3}{8} \times 6$ circled;

   explanations will vary.

3. a. 5; expressions will vary.

   b. 3; expressions will vary.

   c. $7\frac{14}{15}$; expressions will vary.

   d. 4; expressions will vary.

   e. $39\frac{1}{5}$; expressions will vary.

   f. 36; expressions will vary.

4. a. >; explanations will vary.

   b. >; explanations will vary.

   c. >; explanations will vary.

5. a. $2\frac{1}{4}$; expressions will vary.

   b. $1\frac{3}{4}$; expressions will vary.

   c. $3\frac{1}{4}$; expressions will vary.

   d. Line plot accurately drawn

   e. $19\frac{3}{8}$; expressions will vary.