Name

Date

- 1. For each written phrase, write a numerical expression, and then evaluate your expression.
 - a. Forty times the sum of forty-three and fifty-seven

Numerical expression:

Solution:

b. Divide the difference between one thousand three hundred and nine hundred fifty by four

Numerical expression:

Solution:

$$\frac{1300 - 950}{4} = \frac{350}{4} = 87\frac{1}{2}$$

c. Seven times the quotient of five and seven

Numerical expression:

Solution:

$$7 \times (\frac{5}{7}) = \frac{35}{7} = 5$$

d. One fourth the difference of four sixths and three twelfths

Numerical expression:

$$\frac{1}{4} \times \left(\frac{4}{6} - \frac{3}{12}\right)$$

Solution:

$$\frac{1}{4} \times \left(\frac{4}{6} - \frac{3}{12}\right)$$

$$= \frac{1}{4} \times \left(\frac{8}{12} - \frac{3}{12}\right)$$

$$= \frac{1}{4} \times \frac{5}{12}$$

$$\frac{5}{48}$$

3×5×7

- 2. Write at least 2 numerical expressions for each written phrase below. Then, solve.
 - a. Three fifths of seven

b. One sixth the product of four and eight

$$\frac{1}{6} \times (4 \times 8)$$

$$= \frac{1}{6} \times 32$$

$$= \frac{1}{6} \times 32$$

$$= \frac{32}{16} = 5\frac{1}{3}$$

- 3. Use <, >, or = to make true number sentences without calculating. Explain your thinking.
 - 4 tenths + 3 tens + 1 thousandth (a.



1 thousandth is smaller than I hundred th

b.
$$\left(5 \times \frac{1}{10}\right) + \left(7 \times \frac{1}{1000}\right)$$



0.507

Expanded notation



 $8 \times 4.36 + 8 \times 3.59$

7.2 < (4.36+3.59)