

Math 4a. Homework 8.



1. Write the all natural values of the variable  $y$  for which the fraction  $\frac{18}{y}$  is an improper, reducible fraction.
2. Alice, Luis, and Nicolas played a game. Alice earned  $\frac{1}{4}$ , and Luis earned  $\frac{3}{5}$  of all the points played.  
What part of all points did Nicolas earn? Who won?
3. Fill the empty spaces so that equalities are true.

a.  $5 \cdot (4 + 7) = 5 \cdot \underline{\quad} + \underline{\quad} \cdot 7$ ;

b.  $\underline{\quad} \cdot (11 - 7) = \underline{\quad} - 21$ ;

c.  $(\underline{\quad} - \underline{\quad}) \cdot 20 = 80 - 60$ ;

d.  $(35 + a) \cdot 2 = \underline{\quad} + 2a$ ;

e.  $10 \cdot (\underline{\quad} - \underline{\quad}) = 140 - 10x$ ;

f.  $9c + \underline{\quad} = (9 + 1)c$ ;

4. Which sign (+, -, ·, ÷) should be placed instead of \* to make the following equalities true statements.

$$\frac{7}{8} * 1\frac{1}{7} = 1$$

$$\frac{3}{7} * \frac{4}{7} = \frac{3}{4}$$

$$2 * 1\frac{1}{3} = \frac{2}{3}$$

$$\frac{3}{10} * \frac{5}{6} = \frac{1}{4}$$

Book Math 4 chapter4 #29, 30 (page24), chapter 5 #27(page29).