

**Solve in this handout:****1. Calculate and present in the *simplest form*:**

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

$3 \times \frac{1}{6} =$

$3 \times \frac{5}{6} =$

$\frac{1}{2} \times \frac{2}{7} =$

$\frac{1}{2} \times \frac{5}{7} =$

$\frac{1}{2} \times \frac{6}{7} =$

$9 \times \frac{5}{12} =$

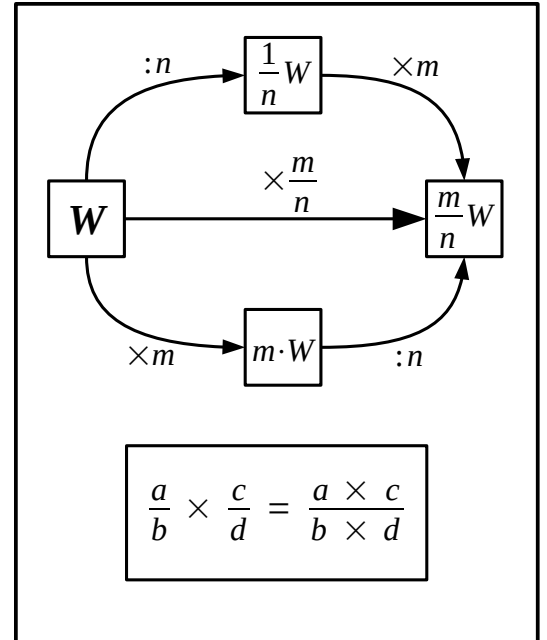
$6 \times \frac{5}{12} =$

$\frac{3}{4} \times \frac{2}{3} =$

$\frac{3}{4} \times \frac{8}{9} =$

$\frac{2}{5} \times \frac{15}{2} =$

$\frac{2}{7} \times \frac{14}{16} =$

**2. How many multiples of 7 are between ...**

a) ... 1 and 13? \_\_\_\_\_

b) ... 1 and 10,000? \_\_\_\_\_

c) ... 13 and 10,000? \_\_\_\_\_

3. Reconstruct parallelogram  $ABCD$  using a compass and a straight edge.

•  $C$

$B$ •

$A$ •

*Solve in your notebook*

4. Show that ...

a) ...  $(2x + 6) : 4 - (3 - x) \cdot \frac{1}{2} = x$

b) ...  $(x + 2y - 4) \cdot \frac{1}{3} + (4x + 2y + 2) : 6 = x + y - 1$

c) ...  $(3x + 4y - 3) : 2 - \frac{1}{2} \cdot (x + 2y) - (y - \frac{1}{2}) = x - 1$

5. Solve the equations:

a).  $(4x - 8) : 2 - \frac{1}{2} \cdot (2x - 6) = 9$   $(x = 10)$

b)\*.  $(9x - 8) : 3 - \frac{2}{3} \cdot (5 - 6x) = 8$   $(x = 2)$

c).  $3 \cdot (4 - x) + (6x - 12) : 3 = 8$   $(x = 0)$