

## 1. Remove parentheses:

a.  $2 \cdot (11x - 7y) =$  \_\_\_\_\_

b.  $(5y - 7x) \cdot 3 =$  \_\_\_\_\_

c.  $(3w + 1) \cdot 3 =$  \_\_\_\_\_

d.  $4 \cdot (3 - 2w) =$  \_\_\_\_\_

e.  $(2x + 3) \cdot 2 + 1 =$  \_\_\_\_\_

## 2. Show that ...

a.  $2 \cdot (11x - 7y) + (5y - 7x) \cdot 3 = x + y$   
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b.  $(3w + 1) \cdot 3 + 4 \cdot (3 - 2w) = 15 + w$   
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## 3. Find ...

$\frac{3}{4}$  of 28 is

$\frac{7}{11}$  of 55 is

$\frac{3}{5}$  of 30 is

## 4. Calculate:

$\frac{1}{11} + \frac{3}{11} =$

$\frac{2}{7} + \frac{3}{7} =$

$\frac{1}{9} + \frac{4}{9} =$

## 5. Simplify:

$\frac{4}{20} =$

$\frac{6}{8} =$

$\frac{12}{18} =$

$\frac{10}{35} =$

$\frac{12}{60} =$

## 6. Expand where necessary to make denominators like to compare (&gt;, &lt;, or =):

$\frac{4}{5} \square \frac{3}{7}$

$\frac{11}{16} \square \frac{5}{12}$

$\frac{7}{12} \square \frac{5}{9}$

7. Calculate:

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

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

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

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

8. Calculate:

$2 \times 3 =$

$6 \times (-2) =$

$4 \times 5 =$

$4 \times (-5) =$

$(-2) \times 3 =$

$2 \times (-6) =$

$(-4) \times 5 =$

$(-4) \times (-5) =$

9. Solve the equations in your notebook:

$$\frac{1}{5}x = 6$$

$$\frac{2}{7}y = 8$$

$$\frac{3}{11}w = 12$$

10. Solve the equations in your notebook:

$$8 - \frac{1}{5}x = 2$$

$$\frac{1}{5}x + 7 = 9$$

11. Plot a rhombus  $ABCD$  such that  $|AB| = 6$  cm. Record your algorithm

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 $\dot{A}$  $\dot{C}$ 

12. Find all the points on the circle  $w$  that are 7 cm away from point  $A$ .

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 $\dot{A}$ 