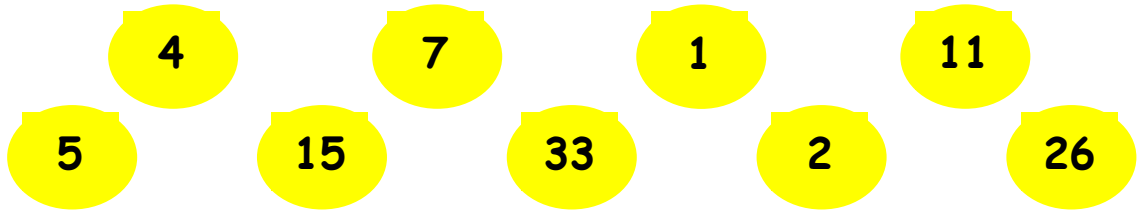


## Factors and fractions WORKSHEET#2

1. 

The numbers below represent the denominators and the numerators of improper fractions.



- a) Make four improper fractions using each digit only once. One digit can be a numerator of one fraction and a denominator of the other one.
- b) Look at your fractions. Did you make some fraction that cannot be simplified? If so, explain why cannot be simplified.
- c) What is the biggest factor to simplify some of your fractions? Write it.
- d) Write the resulting fraction.

2. 

Work with a partner. Among pairs of fractions below choose those with a lowest common denominator less than 30, and let your partner choose those with a lowest common denominator greater than 30.

- |  |  |
|--|--|
| <ol style="list-style-type: none"> <li>a) <math>\frac{1}{2}</math> and <math>\frac{1}{3}</math></li> <li>b) <math>\frac{3}{4}</math> and <math>\frac{3}{5}</math></li> <li>c) <math>\frac{5}{6}</math> and <math>\frac{2}{11}</math></li> <li>d) <math>\frac{2}{3}</math> and <math>\frac{1}{4}</math></li> <li>e) <math>\frac{7}{16}</math> and <math>\frac{7}{9}</math></li> <li>f) <math>\frac{1}{2}</math> and <math>\frac{3}{4}</math></li> </ol> | <ol style="list-style-type: none"> <li>g) <math>\frac{7}{9}</math> and <math>\frac{5}{12}</math></li> <li>h) <math>\frac{13}{25}</math> and <math>\frac{2}{5}</math></li> <li>i) <math>\frac{15}{4}</math> and <math>\frac{3}{14}</math></li> <li>j) <math>\frac{7}{10}</math> and <math>\frac{21}{25}</math></li> </ol> |
|--|--|

Let each of you find the correct lowest common denominator for each set and write it down to see if you answered correctly.



1.

a) E.g:  $\frac{15}{4}$ ,  $\frac{26}{2}$ ,  $\frac{33}{11}$ ,  $\frac{11}{5}$

b) Yes, because the numerator and the denominator have no common factors.  $\frac{15}{4}$  and  $\frac{11}{5}$ .

c) 11

d)  $\frac{33}{11} = \frac{3}{1} = 3$

2.

Less than 30:

$\frac{1}{2}$  and  $\frac{1}{3}$  **(6)**,  $\frac{3}{4}$  and  $\frac{3}{5}$  **(20)**,  $\frac{2}{3}$  and  $\frac{1}{4}$  **(12)**,  $\frac{1}{2}$  and  $\frac{3}{4}$  **(4)**

$\frac{13}{25}$  and  $\frac{2}{5}$  **(25)**,  $\frac{15}{4}$  and  $\frac{3}{14}$  **(28)**