

Use this sheet **WHEN** you have completed the main worksheet and challenge sheet. Remember, this work is designed to be harder than the main work for the day.

Some may not appear too difficult, but you will need to explain your reasoning clearly.

Equivalent Fractions Challenge

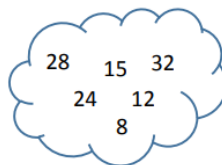
1.

Use the numbers in the cloud to form fractions equivalent to:

a)  $\frac{3}{4}$

b)  $\frac{4}{5}$

c)  $\frac{2}{7}$



1)  $\frac{3}{4} = \frac{24}{32}$  (multiplied by 8)  
 $\frac{4}{5} = \frac{12}{15}$  (multiplied by 3)  
 $\frac{2}{7} = \frac{8}{28}$  (multiplied by 4)

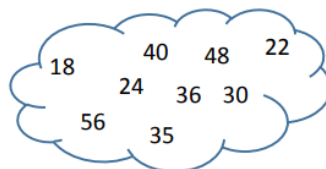
2.

Same again, but this time there are some extra numbers in the cloud that you do not need.

a)  $\frac{2}{3}$

b)  $\frac{5}{6}$

c)  $\frac{5}{8}$



2)  $\frac{2}{3} = \frac{24}{36}$  (multiplied by 12)  
 $\frac{5}{6} = \frac{40}{48}$  (multiplied by 8)  
 $\frac{5}{8} = \frac{35}{56}$  (multiplied by 7)

3. Find a fraction which is equivalent to  $\frac{5}{7}$  and the sum (two numbers added together) of its numerator and denominator is 72.

3)  $\frac{5}{7} = \frac{30}{42}$  (multiplied by 6)  
 $30 + 42 = 72$

4. Find a fraction which is equivalent to  $\frac{2}{5}$  and the product (two numbers multiplied together) of its numerator and denominator is 160.

4)  $\frac{2}{5} = \frac{8}{20}$  (multiplied by 4)  
 $8 \times 20 = 160$