



## Explain the relationship between numerators and denominators across equivalent fractions

### Task A: Explain equivalence using scaling

1) What are the missing **numerators** and **denominators** in these pairs of **equivalent fractions**?

Use the stem sentences to explain how you know.

a)  $\frac{1}{30} = \frac{3}{\square}$

b)  $\frac{1}{8} = \frac{\square}{64}$

c)  $\frac{2}{30} = \frac{\square}{15}$

d)  $\frac{25}{50} = \frac{1}{\square}$

e)  $\frac{\square}{10} = \frac{\square}{60}$

f)  $\frac{1}{\square} = \frac{3}{\square}$

g)  $\frac{\square}{7} = \frac{3}{\square}$

h)  $\frac{1}{\square} = \frac{\square}{\square}$

The **numerator** and **denominator** have both been **scaled** by a factor of \_\_\_\_

2) Which **equivalent fractions** could be represented by these sentences?

a)   1   out of   7   is the same proportion of the whole as   3   out of  21

b) 5 out of 30 is the same proportion of the whole as ? out of 90

c) 7 out of 35 is the same proportion of the whole as 1 out of ?

d) Which pairs of **equivalent fractions** could be represented by this sentence?

The **numerator** and **denominator** have both been **scaled** by a factor of 9

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### Task B: Compare fractions and identify equivalence

1)

a) Order these fractions from the smallest to the largest.

$$\frac{1}{2} \quad \frac{3}{5} \quad \frac{3}{7} \quad \frac{1}{4} \quad \frac{3}{8}$$

b) Write another 5 fractions equivalent to these and order them from smallest to largest.

c) Describe how the fractions in a) and b) are **equivalent** using **scaling** of the **numerators** and **denominators**.

