

4. j)

$$g) \frac{2}{3} = \frac{10}{15}$$

↗ ×5
↘ ×5

$$h) \frac{2}{5} = \frac{10}{25}$$

↗ ×5
↘ ×5

$$i) \frac{2}{7} = \frac{10}{35}$$

↗ ×5
↘ ×5

On each one the numerator has changed from 2 to 10. It has got 5 times bigger.

I need to multiply the denominator by 5 as well to find the equivalent fraction.

7. $\frac{A}{9}$ $\frac{3}{8}$ $\frac{2}{18}$ $\frac{C}{90}$

↑

I would start here.

$$\frac{2}{18} = \frac{C}{90}$$

↗ ×5
↘ ×5

There are 5 18's in 90.

So $C = 10$.

$$\frac{10}{90} = \frac{A}{9}$$

↗ ÷10
↘ ÷10

So $A = 1$.

Then $\frac{1}{9} = \frac{3}{B}$ $B = 27$.

↗ ×3
↘ ×3

$$8. \quad \frac{3}{A} = \frac{B}{14}$$

$$A+B=13.$$

If A was 4, B would be 9. $\frac{3}{4} = \frac{9}{14}$ X

If A was 5, B would be 8. $\frac{3}{5} = \frac{8}{14}$ X

If A was 6, B would be 7. $\frac{3}{6} = \frac{7}{14}$ ✓

$$\text{So } \frac{3}{6} = \frac{7}{14} = \frac{12}{C}$$

$$\frac{3}{6} \xrightarrow{\times 4} = \frac{12}{C}$$

$$\text{So } C = 6 \times 4 = 24.$$

OR

If A was 7, B would be 6. $\frac{3}{7} = \frac{6}{14}$ ✓

$$\text{So } \frac{3}{7} = \frac{6}{14} = \frac{12}{C}$$

$$\frac{6}{14} \xrightarrow{\times 2} = \frac{12}{C}$$

$$\text{So } C = 14 \times 2 = 28.$$

$$9. \quad \frac{1}{5} \xrightarrow{\times 3} = \frac{3}{1+0}$$

$$1+0=15 \quad \text{so } 0=14.$$