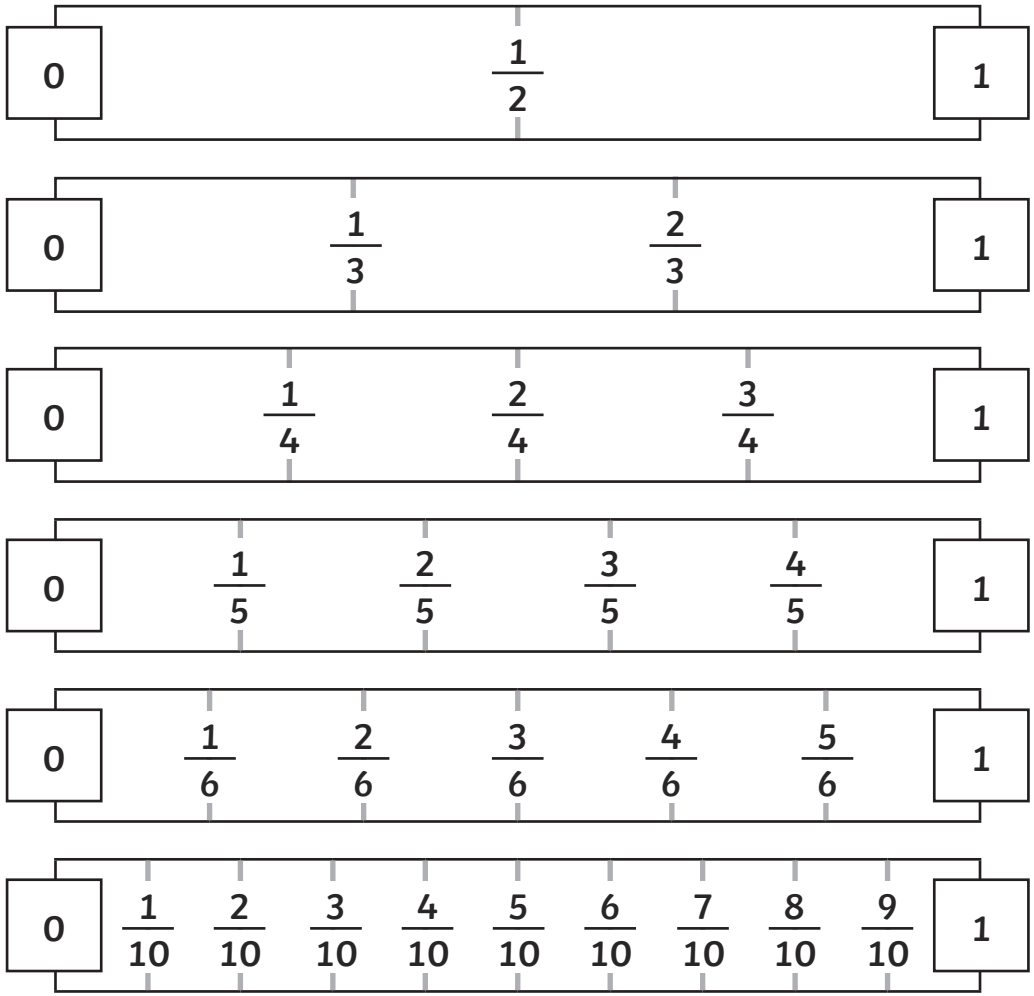
Equivalent Fractions

Using the fraction lines on the left, work out the equivalent fractions:



1. $\frac{1}{2} = \frac{\square}{6}$

2. $\frac{2}{3} = \frac{\square}{6}$

3. $\frac{1}{5} = \frac{\square}{10}$

4. $\frac{1}{3} = \frac{\square}{6}$

5. $\frac{1}{2} = \frac{\square}{10}$

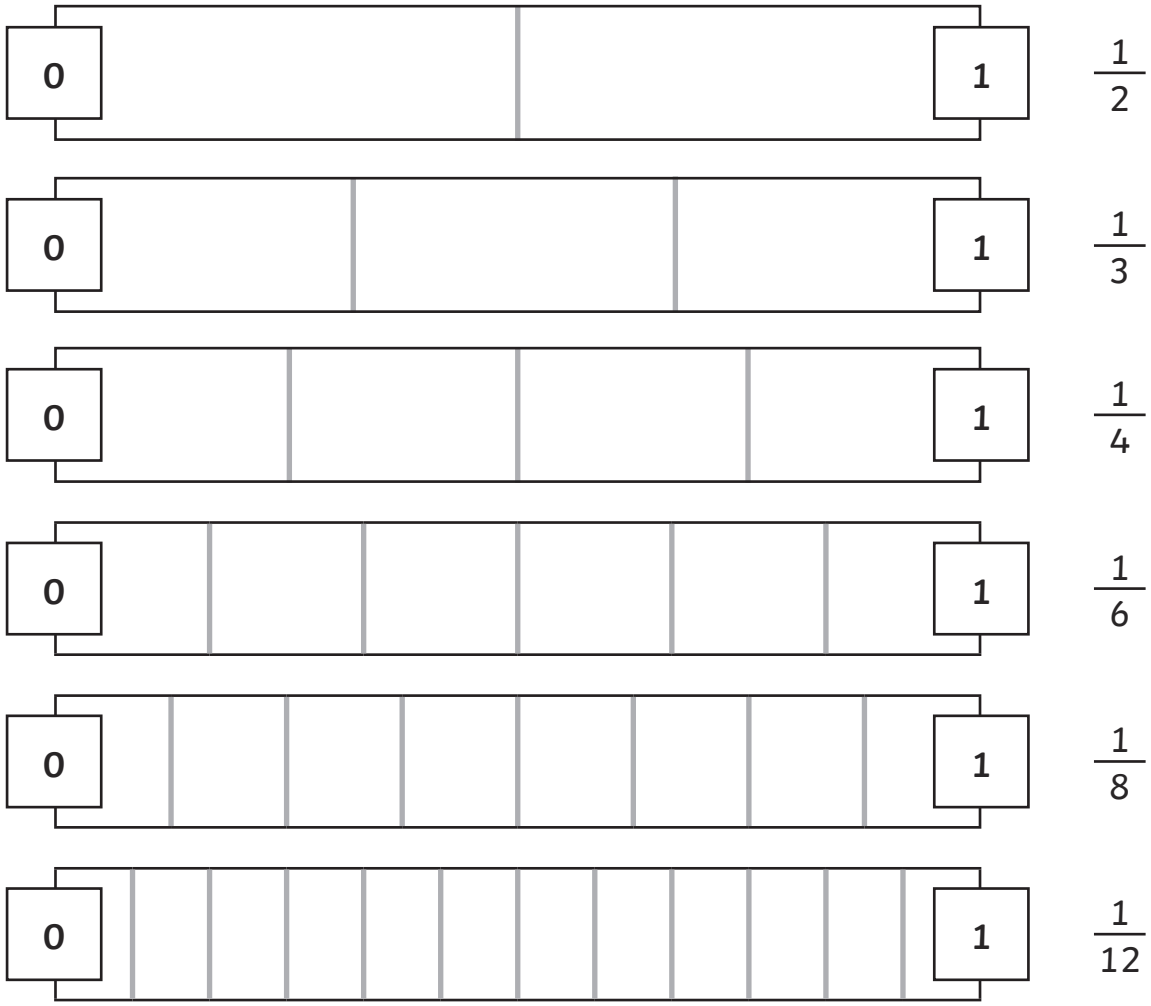
6. $\frac{4}{5} = \frac{\square}{10}$

7. $\frac{4}{10} = \frac{\square}{5}$

8. $\frac{3}{5} = \frac{\square}{10}$

Equivalent Fractions

First, divide each line according to the denominator shown. Then, use each fraction line to find the equivalent fractions.



1. $\frac{6}{12} = \frac{\square}{2}$

2. $\frac{3}{\square} = \frac{1}{4}$

3. $\frac{2}{\square} = \frac{4}{12}$

4. $\frac{\square}{4} = \frac{6}{8}$

5. $\frac{4}{\square} = \frac{1}{3}$

6. $\frac{5}{6} = \frac{10}{\square}$

7. $\frac{2}{3} = \frac{8}{\square}$

8. $\frac{1}{\square} = \frac{2}{12}$

Challenge:

Using what you've learnt about the equivalence between the fractions above, can you work out these equivalent fractions?

9. $\frac{1}{3} = \frac{\square}{9}$

10. $\frac{7}{8} = \frac{\square}{16}$

11. $\frac{5}{12} = \frac{10}{\square}$

12. $\frac{2}{3} = \frac{\square}{9}$

Equivalent Fractions

Work out these equivalent fractions:

1. $\frac{2}{3} = \frac{\square}{6}$
2. $\frac{4}{\square} = \frac{2}{4}$
3. $\frac{1}{5} = \frac{4}{\square}$
4. $\frac{1}{4} = \frac{\square}{12}$
5. $\frac{4}{\square} = \frac{8}{12}$
6. $\frac{2}{\square} = \frac{1}{6}$

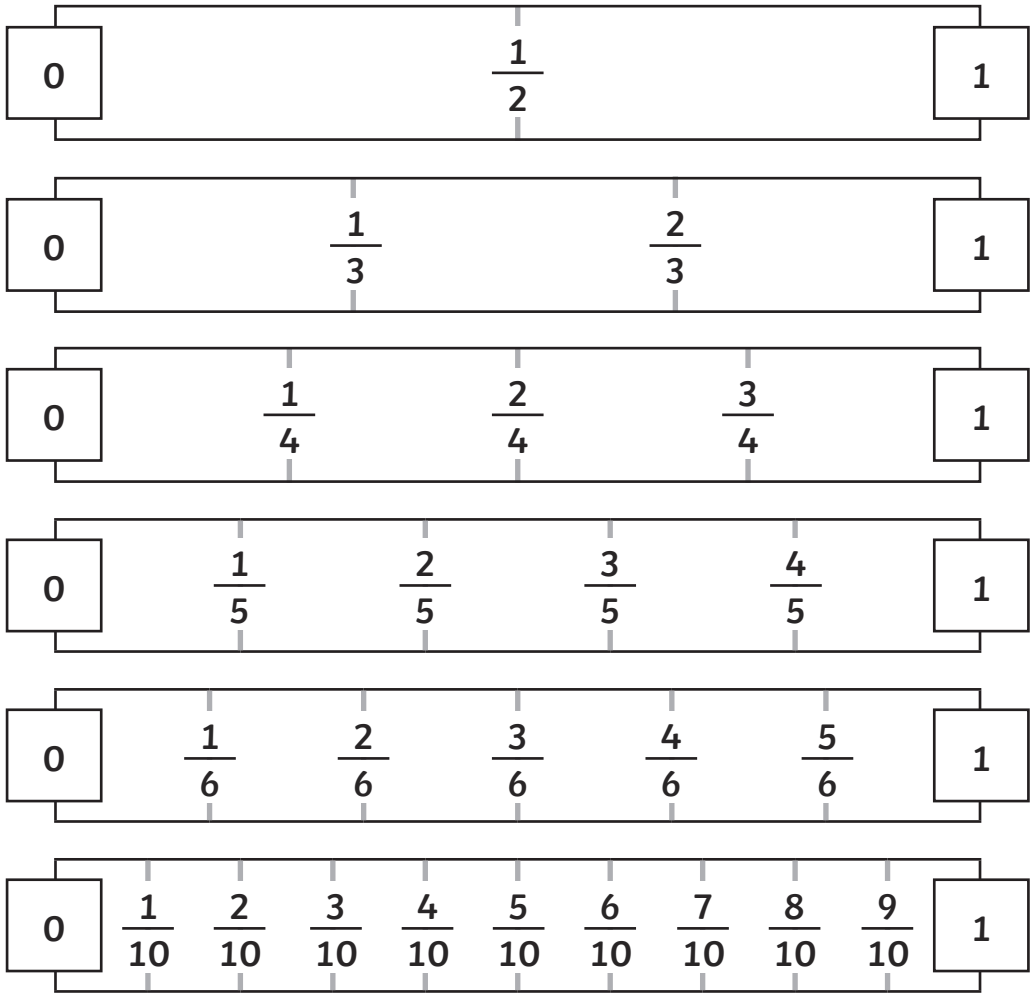
In your own words, explain how to find an equivalent fraction.

Now, work out these equivalent fractions:

7. $\frac{6}{\square} = \frac{2}{3}$
8. $\frac{\square}{16} = \frac{3}{8}$
9. $\frac{5}{6} = \frac{\square}{24}$
10. $\frac{\square}{8} = \frac{14}{56}$
11. $\frac{4}{7} = \frac{\square}{28}$
12. $\frac{9}{13} = \frac{45}{\square}$

Sam says that $\frac{2}{3}$ is equivalent to $\frac{3}{9}$. Is he correct? Explain your answer.

Equivalent Fractions **Answers**



1. $\frac{1}{2} = \frac{\boxed{3}}{6}$

2. $\frac{2}{3} = \frac{\boxed{4}}{6}$

3. $\frac{1}{5} = \frac{\boxed{2}}{10}$

4. $\frac{1}{3} = \frac{\boxed{2}}{6}$

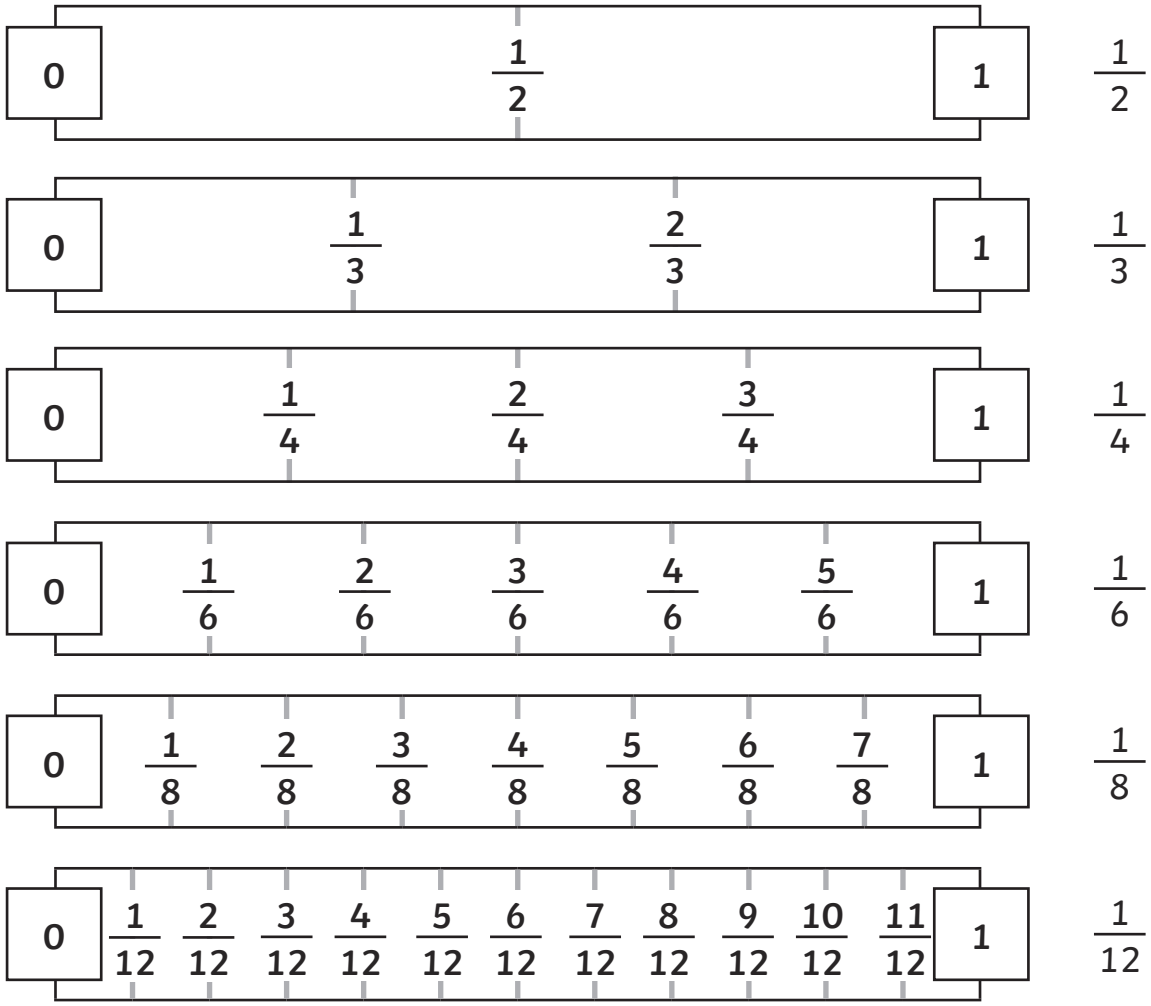
5. $\frac{1}{2} = \frac{\boxed{5}}{10}$

6. $\frac{4}{5} = \frac{\boxed{8}}{10}$

7. $\frac{4}{10} = \frac{\boxed{2}}{5}$

8. $\frac{3}{5} = \frac{\boxed{6}}{10}$

Equivalent Fractions **Answers**



1. $\frac{6}{12} = \frac{\boxed{1}}{2}$

2. $\frac{3}{\boxed{12}} = \frac{1}{4}$

3. $\frac{2}{\boxed{6}} = \frac{4}{12}$

4. $\frac{\boxed{3}}{4} = \frac{6}{8}$

5. $\frac{4}{\boxed{12}} = \frac{1}{3}$

6. $\frac{5}{6} = \frac{10}{\boxed{12}}$

7. $\frac{2}{3} = \frac{8}{\boxed{12}}$

8. $\frac{1}{\boxed{6}} = \frac{2}{12}$

Challenge:

Using what you've learnt about the equivalence between the fractions above, can you work out these equivalent fractions?

9. $\frac{1}{3} = \frac{\boxed{3}}{9}$

10. $\frac{7}{8} = \frac{\boxed{14}}{16}$

11. $\frac{5}{12} = \frac{10}{\boxed{24}}$

12. $\frac{2}{3} = \frac{\boxed{6}}{9}$

Equivalent Fractions **Answers**

Work out these equivalent fractions:

1. $\frac{2}{3} = \frac{\boxed{4}}{6}$
2. $\frac{4}{\boxed{8}} = \frac{2}{4}$
3. $\frac{1}{5} = \frac{4}{\boxed{20}}$
4. $\frac{1}{4} = \frac{\boxed{3}}{12}$
5. $\frac{4}{\boxed{6}} = \frac{8}{12}$
6. $\frac{2}{\boxed{12}} = \frac{1}{6}$

In your own words, explain how to find an equivalent fraction.

Pupil's own response.

Now, work out these equivalent fractions:

7. $\frac{6}{\boxed{9}} = \frac{2}{3}$
8. $\frac{\boxed{6}}{16} = \frac{3}{8}$
9. $\frac{5}{6} = \frac{\boxed{20}}{24}$
10. $\frac{\boxed{2}}{8} = \frac{14}{56}$
11. $\frac{4}{7} = \frac{\boxed{16}}{28}$
12. $\frac{9}{13} = \frac{45}{\boxed{65}}$

Sam says that $\frac{2}{3}$ is equivalent to $\frac{3}{9}$. Is he correct? Explain your answer.

He is incorrect. Accept any explanation that correctly explains why $\frac{2}{3}$ is not equivalent to $\frac{3}{9}$. For example, Sam is wrong because to make the denominators equal (9) 3 would need to be multiplied by 3. 2 multiplied by 3 is 6 so $\frac{2}{3}$ is equivalent to $\frac{6}{9}$.