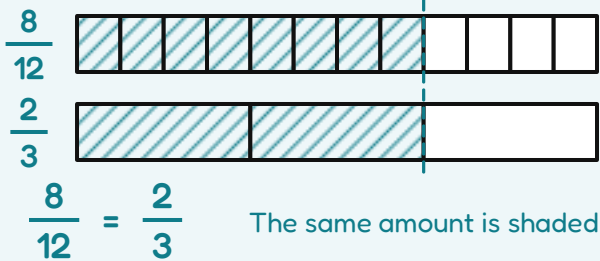


Simplify fractions

Divide the top and bottom by the same number until they share no factor but 1.

1 Study the model.

Worked example: simplify 8/12



- 1 Find a number that divides 8 and 12: 4 is the greatest common factor.
- 2 Divide the top and the bottom by 4: $8 \div 4 = 2$ and $12 \div 4 = 3$.
- 3 2 and 3 share no factor except 1, so $2/3$ is in simplest form.

2 Write each fraction in simplest form.

- | | | | |
|---|---|---|---|
| 1. $\frac{6}{8} = \frac{\boxed{}}{\boxed{}}$ | 2. $\frac{4}{10} = \frac{\boxed{}}{\boxed{}}$ | 3. $\frac{3}{9} = \frac{\boxed{}}{\boxed{}}$ | 4. $\frac{10}{12} = \frac{\boxed{}}{\boxed{}}$ |
| 5. $\frac{5}{15} = \frac{\boxed{}}{\boxed{}}$ | 6. $\frac{8}{16} = \frac{\boxed{}}{\boxed{}}$ | 7. $\frac{12}{18} = \frac{\boxed{}}{\boxed{}}$ | 8. $\frac{6}{9} = \frac{\boxed{}}{\boxed{}}$ |
| 9. $\frac{14}{21} = \frac{\boxed{}}{\boxed{}}$ | 10. $\frac{9}{12} = \frac{\boxed{}}{\boxed{}}$ | 11. $\frac{15}{20} = \frac{\boxed{}}{\boxed{}}$ | 12. $\frac{16}{24} = \frac{\boxed{}}{\boxed{}}$ |
| 13. $\frac{18}{27} = \frac{\boxed{}}{\boxed{}}$ | 14. $\frac{20}{25} = \frac{\boxed{}}{\boxed{}}$ | 15. $\frac{7}{28} = \frac{\boxed{}}{\boxed{}}$ | 16. $\frac{24}{36} = \frac{\boxed{}}{\boxed{}}$ |

3 Solve the quilting problems.

17. Grandma's quilt has 12 squares. 8 of them are blue.
What fraction is blue, in simplest form?

Answer

18. Priya sews 20 patches. 15 of them have stripes.
What fraction have stripes, in simplest form?

Answer