

## 73. Simplifying Fractions Using Cancellation

### Practice Questions

1. Simplify  $\frac{16}{24}$ .
2. Reduce  $\frac{27}{36}$  to its simplest form.
3. Write  $\frac{10}{15}$  in its lowest terms.
4. Simplify  $\frac{18}{54}$  using cancellation.
5. Express  $\frac{14}{28}$  in its simplest form.
6. Find the simplest form of  $\frac{21}{49}$ .
7. Which of these is the simplest form of  $\frac{32}{48}$ ? (a)  $\frac{8}{12}$  (b)  $\frac{2}{3}$  (c)  $\frac{4}{6}$
8. Simplify  $\frac{99}{121}$  fully.
9. A student writes  $\frac{42}{63} = \frac{2}{3}$ . Are they correct?
10. Express  $\frac{30}{50}$  in its lowest form.

### Scenario Questions

1. A recipe calls for  $\frac{18}{24}$  cups of flour. Simplify the fraction.
2. A football team won 12 out of 18 games. Write the win ratio in its simplest form.
3. A shop sells 30 red T-shirts and 45 blue T-shirts. Express the ratio of red to blue in the simplest form.
4. A farmer has 42 cows and 63 sheep. Write the fraction of cows to total animals in its lowest terms.
5. A student got 16 out of 20 questions correct. Simplify their score as a fraction.
6. A bottle contains 300ml of juice, and Sam drinks 120ml. What fraction of the juice remains?
7. A park has 40 oak trees and 60 maple trees. Express the fraction of oak trees in simplest form.
8. A baker makes 54 chocolate cupcakes and 81 vanilla cupcakes. Simplify the fraction of chocolate cupcakes.
9. A train journey is 75 km, but a passenger gets off after 45 km. What fraction of the journey is completed?
10. A builder uses 16 out of 24 bricks for a wall. Express the fraction of used bricks in simplest form.

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1.  $\frac{2}{3}$
2.  $\frac{3}{4}$
3.  $\frac{2}{3}$
4.  $\frac{1}{3}$
5.  $\frac{1}{2}$
6.  $\frac{3}{7}$
7. (b)  $\frac{2}{3}$
8.  $\frac{9}{11}$
9. Yes
10.  $\frac{3}{5}$

### Scenario Questions

1.  $\frac{3}{4}$
2.  $\frac{2}{3}$
3.  $\frac{2}{3}$
4.  $\frac{2}{5}$
5.  $\frac{4}{5}$
6.  $\frac{3}{5}$
7.  $\frac{2}{5}$
8.  $\frac{2}{3}$
9.  $\frac{3}{5}$
10.  $\frac{2}{3}$

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