

CLASS 6

MATHS

EXTRA QUESTIONS

## Class 6 Maths Chapter 7 Fractions Extra Questions

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Extra practice questions for Class 6 Maths Chapter 7, "Fractions", to build confidence with fractional units, equivalence, comparison, and addition/subtraction beyond the textbook's own exercises.

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Extra practice questions for **Class 6 Maths Chapter 7, "Fractions"**, to build confidence with fractional units, equivalence, comparison, and addition/subtraction beyond the textbook's own exercises.

## Very Short Answer Questions

**Q1.** What is a unit fraction?

**Answer:** A fraction with numerator 1, such as  $\frac{1}{2}$ ,  $\frac{1}{3}$ , or  $\frac{1}{9}$ .

**Q2.** What is the difference between a proper and an improper fraction?

**Answer:** A proper fraction has numerator less than denominator (value  $< 1$ ); an improper fraction has numerator greater than or equal to denominator (value  $\geq 1$ ).

**Q3.** Convert  $\frac{23}{5}$  into a mixed fraction.

**Answer:**  $\frac{23}{5} = 4 \frac{3}{5}$ .

**Q4.** Write two fractions equivalent to  $\frac{3}{5}$ .

**Answer:**  **$\frac{6}{10}$  and  $\frac{9}{15}$**  (any correct multiples are acceptable).

**Q5.** Simplify  $\frac{18}{24}$  to its lowest terms.

**Answer:** HCF(18,24)=6, so  **$\frac{3}{4}$** .

## Short Answer Questions

**Q6.** Compare  $\frac{5}{6}$  and  $\frac{7}{9}$  and state which is greater.

**Answer:** LCM=18:  $\frac{15}{18}$  vs  $\frac{14}{18}$ , so  **$\frac{5}{6} > \frac{7}{9}$** .

**Q7.** Add:  $\frac{3}{8} + \frac{5}{12}$ .

**Answer:** LCM=24:  $\frac{9}{24} + \frac{10}{24} = \frac{19}{24}$ .

**Q8.** Subtract:  $\frac{7}{9} - \frac{5}{12}$ .

**Answer:** LCM=36:  $\frac{28}{36} - \frac{15}{36} = \frac{13}{36}$ .

**Q9.** Convert  $6 \frac{2}{7}$  into an improper fraction.

**Answer:**  $(6 \times 7 + 2)/7 = \frac{44}{7}$ .

**Q10.** Arrange in descending order:  $\frac{3}{4}$ ,  $\frac{5}{8}$ ,  $\frac{7}{12}$ .

**Answer:** LCM=24:  $\frac{18}{24}$ ,  $\frac{15}{24}$ ,  $\frac{14}{24}$ , so  **$\frac{3}{4} > \frac{5}{8} > \frac{7}{12}$** .

## Long Answer / Word Problems

**Q11.** A tank is  $\frac{3}{5}$  full of water. If  $\frac{1}{4}$  more of the tank's capacity is filled, what fraction of the tank is now full? Is the tank overflowing?

**Answer:**  $\frac{3}{5} + \frac{1}{4} = \frac{12}{20} + \frac{5}{20} = \frac{17}{20}$ . Since  $\frac{17}{20} < 1$  (i.e.,  $\frac{20}{20}$ ), the tank is  **$\frac{17}{20}$  full and not overflowing** — there is  $\frac{3}{20}$  of the tank still empty.

**Q12.** A recipe needs  $2\frac{13}{12}$  cups of flour, but you only have  $1\frac{3}{4}$  cups. How much more flour do you need?

**Answer:**  $2\frac{13}{12} = \frac{7}{3}$ ,  $1\frac{3}{4} = \frac{7}{4}$ . LCM=12:  $\frac{28}{12} - \frac{21}{12} = \frac{7}{12}$ . You need  **$\frac{7}{12}$  cup** more flour.

**Q13.** Three pieces of ribbon measure  $\frac{2}{3}$  m,  $\frac{5}{6}$  m, and  $\frac{1}{2}$  m. Find the total length of ribbon, expressed as a mixed fraction.

**Answer:** LCM=6:  $\frac{4}{6} + \frac{5}{6} + \frac{3}{6} = \frac{12}{6} = 2$  m.

**Q14.** Explain, with an example, why  $\frac{2}{4}$  and  $\frac{3}{6}$  are equivalent fractions even though their numerators and denominators are different.

**Answer:** Equivalent fractions represent the same value/share of a whole even though written differently —  $\frac{2}{4}$  simplifies to  $\frac{1}{2}$  (dividing both by 2), and  $\frac{3}{6}$  also simplifies to  $\frac{1}{2}$  (dividing both by 3). Since both reduce to the same simplest form, they represent an identical amount, just described using a different number of equal parts.

**Q15.** A cake is cut into 8 equal pieces. Priya eats  $\frac{3}{8}$  of the cake and Rahul eats  $\frac{1}{4}$  of the cake. What fraction of the cake is left?

**Answer:** Rahul's share =  $\frac{1}{4} = \frac{2}{8}$ . Total eaten =  $\frac{3}{8} + \frac{2}{8} = \frac{5}{8}$ . Remaining =  $1 - \frac{5}{8} = \frac{3}{8}$  of the cake.