

Fractions & Decimals Worksheet

Name:

Class:

Date:

Score:

Basic Fraction Operations

1. Convert the following improper fractions into mixed numbers:

(a) Convert $\frac{17}{5}$ into a mixed number.

(b) Convert $\frac{23}{4}$ into a mixed number.

(c) Convert $\frac{19}{6}$ into a mixed number.

(d) Convert $\frac{45}{8}$ into a mixed number.

(e) Convert $\frac{32}{7}$ into a mixed number.

(f) Convert $\frac{29}{3}$ into a mixed number.

(g) Convert $\frac{14}{5}$ into a mixed number.

2. Multiply the following mixed numbers and simplify the result:

(a) Multiply $2\frac{1}{2} \times 3\frac{1}{3} =$

(b) Multiply $4\frac{2}{5} \times 2\frac{1}{2} =$

(c) Multiply $1\frac{3}{4} \times 5\frac{2}{3} =$

(d) Multiply $3\frac{1}{5} \times 6\frac{1}{4} =$

(e) Multiply $7\frac{2}{3} \times 1\frac{1}{6} =$

(f) Multiply $2\frac{3}{7} \times 4\frac{3}{5} =$

(g) Multiply $5\frac{1}{2} \times 2\frac{3}{8} =$

3. Find the fraction of the given numbers:

(a) What is $\frac{1}{4}$ of 28? =

(b) What is $\frac{2}{5}$ of 45? =

(c) What is $\frac{3}{8}$ of 64? =

(d) What is $\frac{5}{6}$ of 72? =

(e) What is $\frac{2}{3}$ of 90? =

(f) What is $\frac{4}{7}$ of 49? =

(g) What is $\frac{3}{5}$ of 100? =

4. A jug contains 6 litres of juice. Riya drinks $\frac{2}{3}$ of it. How much juice is left in the jug?

5. Divide the following fractions and simplify:

(a) Divide $\frac{3}{4} \div \frac{1}{2} =$

(b) Divide $\frac{7}{8} \div \frac{2}{3} =$

(c) Divide $\frac{5}{6} \div \frac{1}{4} =$

(d) Divide $\frac{2}{5} \div \frac{3}{7} =$

(e) Divide $\frac{4}{9} \div \frac{2}{3} =$

(f) Divide $\frac{6}{7} \div \frac{5}{6} =$

(g) Divide $\frac{8}{11} \div \frac{4}{5} =$

6. A water tank holds 9 litres of water. A pipe fills $\frac{3}{4}$ of the tank in one hour.

How many litres does it fill in one hour?

7. Add the following fractions and reduce them to the lowest form:

(a) Add $\frac{2}{5} + \frac{3}{10} =$

(b) Add $\frac{4}{9} + \frac{5}{18} =$

(c) Add $\frac{7}{8} + \frac{1}{4} =$

(d) Add $\frac{3}{7} + \frac{2}{3} =$

(e) Add $\frac{5}{6} + \frac{1}{2} =$

(f) Add $\frac{1}{3} + \frac{3}{4} =$

(g) Add $\frac{2}{9} + \frac{4}{5} =$

8. Reena baked $3\frac{1}{2}$ trays of cookies and her friend baked $2\frac{2}{3}$ trays. How many trays of cookies did they bake together?

9. Subtract the following fractions and simplify the results:

(a) Subtract $\frac{5}{6} - \frac{1}{3} =$

(b) Subtract $\frac{7}{8} - \frac{3}{4} =$

(c) Subtract $\frac{9}{10} - \frac{2}{5} =$

(d) Subtract $\frac{3}{4} - \frac{1}{6} =$

(e) Subtract $\frac{11}{12} - \frac{5}{6} =$

(f) Subtract $\frac{4}{5} - \frac{2}{7} =$

(g) Subtract $\frac{7}{9} - \frac{1}{3} =$

10. Arjun ran $2\frac{1}{4}$ km in the morning and $1\frac{3}{4}$ km in the evening. What is the total distance he ran in a day?