

SHARP

Worksheet 3: Common Fractions

Grade 9 Mathematics

1. Find the answers for these sums without using your calculator. Make sure you leave your answer in its simplest form:

a) $-6\frac{2}{5} \times 3 \div 2\frac{2}{4}$

b) $\left(-\frac{11}{2}\right)^2 + \sqrt{2\frac{7}{9}}$

c) $-4\frac{1}{5} \times \left(-\frac{15}{6}\right) \div 3\frac{2}{3}$

d) $\sqrt[3]{\frac{1}{64}} + \left(\frac{-1}{4}\right)^3$

e) $-2\frac{3}{7} + 1\frac{8}{5} - \left(-1\frac{3}{5}\right)$

f) $\left(-\frac{4}{5}\right)^2 + \frac{14}{3} \times \left(-3\frac{6}{7}\right)$

g) $3\frac{2}{11} \times \left(-\frac{1}{12} + 4\frac{1}{4}\right)$

h) $\sqrt{4\frac{21}{25}} + \sqrt[3]{3\frac{3}{8}}$

i) $4\frac{4}{5} \times 5\frac{7}{9} \div 6\frac{8}{9}$

j) $\left(\frac{3}{4}\right)^3 + \left(\frac{5}{8}\right)^2$

k) $5\frac{3}{7} \div 2\frac{10}{14}$

l) $\frac{90}{8} + 1\frac{4}{9} - \frac{16}{18}$

m) $\sqrt{\frac{1}{4} + \frac{4}{9}}$

n) $\sqrt[3]{\frac{133}{64} - \frac{1}{8}}$

o) $\left(-\frac{45}{8}\right) \times \left(\frac{4}{5}\right)^2 \div \frac{12}{7}$

p) $7\frac{9}{11} + 5\frac{1}{4} - 3\frac{3}{8}$

2. Convert these mixed number fractions into improper fractions in simplest form:

a) $6\frac{9}{11}$

b) $25\frac{3}{100}$

c) $8\frac{2}{25}$

d) $4\frac{5}{6}$

e) $15\frac{3}{6}$

f) $5\frac{8}{14}$

g) $9\frac{1}{6}$

h) $9\frac{3}{15}$

i) $6\frac{7}{9}$

j) $9\frac{8}{11}$

k) $5\frac{6}{12}$

l) $7\frac{1}{4}$

3. Convert these improper fractions into mixed number fractions in simplest form:

a) $\frac{19}{7}$

b) $\frac{92}{6}$

c) $\frac{81}{8}$

d) $\frac{90}{11}$

e) $\frac{48}{9}$

f) $\frac{31}{4}$

g) $\frac{66}{15}$

h) $\frac{59}{5}$

i) $\frac{31}{9}$

j) $\frac{56}{7}$

k) $\frac{30}{4}$

l) $\frac{84}{8}$

4. Give the equivalent fraction for each of these:

a) $\frac{7}{10} = \frac{?}{40}$

b) $\frac{36}{54} = \frac{6}{?}$

c) $\frac{2}{9} = \frac{?}{63}$

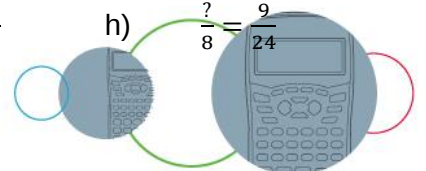
d) $\frac{?}{5} = \frac{15}{25}$

e) $\frac{7}{?} = \frac{35}{100}$

f) $\frac{81}{45} = \frac{?}{5}$

g) $\frac{3}{12} = \frac{21}{?}$

h) $\frac{?}{8} = \frac{9}{24}$



5. Complete the missing values in the table below:

Fraction	Decimal	Percentage
$\frac{77}{100}$		
	0.44	
		46.7%
$\frac{36}{50}$		
	0.94	
		125%

6. Edgar's maths class wrote a test and 5 students got the following marks: 82%, 27%, 95%, 32%, and 60%.
- What fraction of the test did each of the students get correct?
 - What fraction of the test did each of the students get wrong?
 - If the test was out of 25, what mark did each student get for the test (round off to the nearest whole)?
7. Henry and his brother, Robert, are both given the same amount of pocket money. Henry spends $\frac{7}{8}$ of his pocket money on games while Robert spends half that amount on games and $\frac{2}{5}$ of his pocket money on new shoes.
- What fraction of pocket money does Robert spend altogether?
 - If Henry and Robert get R300 pocket money find
 - The amount of money Henry spent on games.
 - The total amount of money Robert spent
 - And, how much money the boys have left over if they put their money together.
8. You decide to host a pizza party. You know that the average person will eat $\frac{5}{9}$ of a pizza. You invite 12 people to the party. How many pizzas do you need? And how much pizza will be left over?

