Ch.2 Fractions and Decimals

Q.1 Simplify the following fractions.

e.g. (a) $\frac{33}{44}$ (b) $\frac{10}{80}$ (c) $\frac{240}{360}$

=_____ =_____ =_____

(d) $\frac{54}{72}$ (e) $\frac{45}{250}$ (f) $\frac{255}{195}$

=_____ =_____ =_____

Q.2 Fill in the brackets to make both sides equal.

e.g. (a) $\frac{1}{5}=\frac{(\quad)}{10}$ (b) $\frac{3}{10}=\frac{(\quad)}{100}$ (c) $\frac{1}{3}=\frac{(\quad)}{12}$

(d) $\frac{4}{10}=\frac{(\quad)}{100}$ (e) $\frac{2}{5}=\frac{(\quad)}{100}$ (f) $\frac{7}{20}=\frac{(\quad)}{40}$

Q.3 Convert the following decimals to fractions。

e.g. (a) 0.35 (b) 0.375 (c) 2.5

$=\frac{35}{100}$ = =

=_____ =_____ =_____

(d) 0.625 (e) 0.25 (f) 1.4

= = =

=_____ =_____ =_____

Q.4 Convert the following fractions to decimals.

e.g. (a) $\frac{9}{20}$ (b) $\frac{10}{80}$

=_____ =_____

(d) $\frac{27}{8}$ (e) $3\frac{3}{16}$

=_____ =_____

Q.5 Calculate the following questions.

e.g. (a) $\frac{4}{9}+\frac{7}{12}-\frac{5}{18}$

$=$_____

$=$_____

$=$_____

(b) $\frac{5}{9}+\frac{5}{9}-\frac{4}{9}$

$=$_____

$=$_____

$=$_____

(c) $\frac{3}{8}+\frac{5}{6}$

$=$_____

$=$_____

(d) $\frac{6}{11}+2\frac{3}{11}-1\frac{10}{11}$

$=$_____

$=$_____

(e) $\frac{3}{2}-\frac{5}{4}+\frac{11}{8}$

$=$_____

$=$_____

$=$_____

(f) $\frac{11}{35}+\frac{56}{77}$

$=$_____

$=$_____

$=$_____

e.g. (g) $1\frac{4}{5}\times\frac{7}{12}$

$=$_____

$=$_____

$=$_____

e.g. (h) $\frac{4}{15}\div 2\frac{2}{3}$

$=$_____

$=$_____

$=$_____

(i) $\frac{3}{4}\times\frac{8}{9}$

$=$_____

$=$_____

$=$_____

(j) $\frac{5}{8}\times 1\frac{5}{7}$

$=$_____

$=$_____

$=$_____

(k) $\frac{4}{25}\div\frac{2}{5}$

$=$_____

$=$_____

$=$_____

(l) $\frac{5}{6}\div 1\frac{1}{9}$

$=$_____

$=$_____

$=$_____

(m) $\frac{7}{8}\times\frac{4}{5}\div\frac{14}{15}$

$=$_____

$=$_____

$=$_____

$=$_____

(n) $\frac{10}{21}\times 1\frac{31}{32}\div 8\frac{1}{3}$

$=$_____

$=$_____

$=$_____

$=$_____

Q.6 Calculate the following questions.

e.g. (a) 1.3×2.4

$=$_____

e.g. (b) $12 \div 2.4$

$=$_____

(c) $0.23 + 1.59$

$=$_____

(d) $4.27 - 1.95$

$=$_____

(e) $2.45 + 3.3$

$=$_____

(f) $5.25 - 3.3$

$=$_____

(g) 1.7×3.4

$=$_____

(h) $2.4 \div 0.8$

$=$_____

(i) 0.25×3.2

$=$_____

(j) $3.8 \div 1.25$

$=$_____

Q.7 ***Challenging Questions**

(a) $\dfrac{\frac{2}{3}}{2-\frac{4}{5}}$

$=$_____

$=$_____

$=$_____

$=$_____

$=$_____

(b) $\dfrac{1}{2+\dfrac{1}{3+\frac{1}{2}}}$

$=$_____

$=$_____

$=$_____

$=$_____

$=$_____