Fractions Worksheet

Ex 1.
Simplify the following fractions by finding a common denominator, giving your answer in its simplest form

a. $\frac{1}{4}+\frac{2}{4}$ **b.** $\frac{1}{2}-\frac{1}{4}$ **c.** $\frac{1}{3}+\frac{1}{4}$ **d.** $\frac{1}{3}-\frac{1}{4}$ **e.** $\frac{1}{6}+\frac{1}{4}$

f. $\frac{2}{7}+\frac{1}{3}$ **g.** $\frac{3}{5}+\frac{2}{10}$ **h.** $\frac{4}{7}-\frac{1}{3}$ **i.** $\frac{4}{9}+\frac{1}{10}$ **j.** $\frac{1}{8}+\frac{3}{4}$

k. $\frac{1}{3}-\frac{1}{4}$ **l.** $\frac{4}{5}-\frac{1}{10}$ **m.** $\frac{2}{11}+\frac{7}{10}$ **n.** $\frac{6}{7}-\frac{3}{4}$ **o.** $\frac{7}{8}+\frac{5}{7}$

Ex 2.
Simplify the following fractions by finding a common denominator, giving your answer in its simplest form

a. $1\frac{1}{4}+\frac{2}{4}$ **b.** $2\frac{1}{2}+1\frac{3}{4}$ **c.** $3\frac{2}{3}+1\frac{1}{4}$ **d.** $2\frac{1}{3}+1\frac{1}{7}$

e. $1\frac{4}{7}+1\frac{2}{3}$ **f.** $4\frac{3}{5}+\frac{7}{10}$ **g.** $\frac{4}{7}+2\frac{1}{3}$ **h.** $1\frac{4}{9}+\frac{3}{10}$

i. $2\frac{2}{3}-1\frac{1}{4}$ **j.** $3\frac{1}{5}-1\frac{3}{10}$ **k.** $1\frac{3}{11}+1\frac{1}{10}$ **l.** $1\frac{2}{7}-\frac{3}{4}$

Ex 3.
Multiply the following fractions together and give the resulting fraction in its simplest form

a. $\frac{1}{4}\times\frac{2}{4}$ **b.** $\frac{1}{2}\times\frac{1}{4}$ **c.** $\frac{2}{3}\times\frac{3}{4}$ **d.** $\frac{2}{7}\times\frac{5}{6}$ **e.** $\frac{3}{12}\times\frac{3}{5}$

f. $\frac{3}{8}\times\frac{4}{5}$ **g.** $\frac{10}{25}\times\frac{2}{9}$ **h.** $\frac{5}{4}\times\frac{6}{7}$ **i.** $\frac{9}{4}\times\frac{2}{10}$ **j.** $1\frac{1}{8}\times\frac{3}{4}$

k. $1\frac{1}{3}\times1\frac{1}{4}$ **l.** $2\frac{4}{5}\times1\frac{3}{5}$ **m.** $\frac{2}{3}\times1\frac{3}{4}$ **n.** $\frac{1}{2}\times\frac{3}{4}\times\frac{1}{3}$

Ex 4.
Divide the following fractions, giving the resulting fraction in its simplest form

a. $\frac{1}{4}\div\frac{2}{4}$ **b.** $\frac{1}{2}\div\frac{1}{4}$ **c.** $\frac{2}{3}\div\frac{3}{4}$ **d.** $\frac{2}{7}\div\frac{5}{6}$ **e.** $\frac{3}{12}\div\frac{3}{5}$

f. $\frac{3}{8}\div\frac{4}{5}$ **g.** $\frac{10}{25}\div\frac{2}{9}$ **h.** $1\frac{3}{4}\div2\frac{6}{7}$ **i.** $\frac{9}{4}\times3\frac{2}{10}$ **j.** $1\frac{1}{8}\div\frac{3}{4}$

5. Jill has a book $1\frac{2}{3}$ cm thick and places it on top of another book $2\frac{1}{5}$ cm thick. What is the total height of the books?

6. Joe has sheets of paper $\frac{7}{8}$ mm thick. How many pieces of paper make a pile at least $5\frac{1}{2}$ mm tall?

7. Dan's model soldier is $5\frac{1}{2}$ cm tall. Another model is $7\frac{1}{3}$ cm tall. What is the height difference between the two?

8. In a car park, $\frac{1}{8}$ of the cars are black, $\frac{1}{3}$ are red, $\frac{1}{4}$ are blue and the rest are other colours. What fraction are other colours?

9. *a.* $\frac{2}{3}$ of a bag of sweets is shared between 6 children. What fraction (in its simplest form) does each get?

b. Dad eats $\frac{2}{5}$ of the rest of the bag. What fraction of the total bag does dad eat?

c. What fraction of the total bag is left over?