Mathematics Homework

Block 2

Fractions   Level 4

<u>SHOW ALL WORKING!</u>

1. Multiply the following fractions:
    (Remember to write your answers in their simplest form)

a) $\dfrac{1}{2} \times \dfrac{3}{4}$
b) $\dfrac{2}{5} \times \dfrac{2}{3}$
c) $\dfrac{4}{7} \times \dfrac{2}{3}$
d) $\dfrac{5}{6} \times \dfrac{5}{8}$

e) $3 \times \dfrac{2}{7}$
f) $\dfrac{5}{12} \times \dfrac{3}{4}$
g) $2\dfrac{1}{2} \times 1\dfrac{3}{4}$
h) $4\dfrac{2}{7} \times 3\dfrac{5}{6}$

2.
Calculate the area of a rectangle that measures $1\dfrac{3}{5}m$ by $\dfrac{4}{7}m$.

3. Divide the following fractions:
    (Remember to write your answers in their simplest form)

a) $\dfrac{1}{2} \div \dfrac{3}{4}$
b) $\dfrac{5}{8} \div \dfrac{1}{4}$
c) $\dfrac{7}{9} \div \dfrac{2}{3}$
d) $\dfrac{9}{16} \div \dfrac{3}{16}$

e) $\dfrac{3}{5} \div \dfrac{2}{3}$
f) $2\dfrac{3}{4} \div 3$
g) $3\dfrac{5}{8} \div \dfrac{9}{10}$
h) $6\dfrac{1}{3} \div 2\dfrac{1}{4}$

4.
A glass can hold $\dfrac{1}{6}$ of a litre. If a jug holds $\dfrac{3}{4}$ of a litre, how many glasses can be filled from it?

5. Calculate:
    (Remember to write your answers in their simplest form)

a) $2\dfrac{3}{16} + 6\dfrac{10}{16}$
b) $5\dfrac{9}{10} - 2\dfrac{3}{10}$

c) $2\dfrac{2}{5} + 1\dfrac{1}{2}$
d) $4\dfrac{5}{8} - 2\dfrac{1}{3}$

e) $5\dfrac{2}{3} + 2\dfrac{1}{4}$
f) $3\dfrac{1}{4} - 1\dfrac{3}{5}$