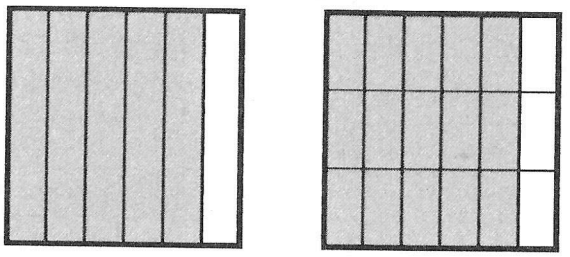
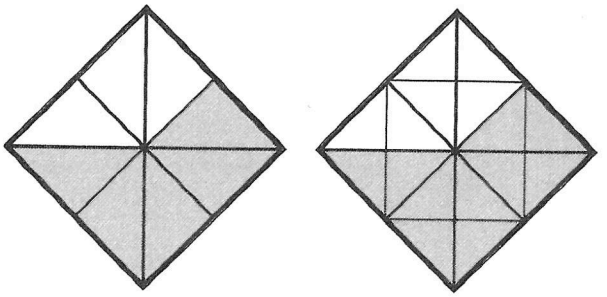
Mosaics

1 Write equal fractions for each pair of Kitbits mosaic designs.

(a)



(b)



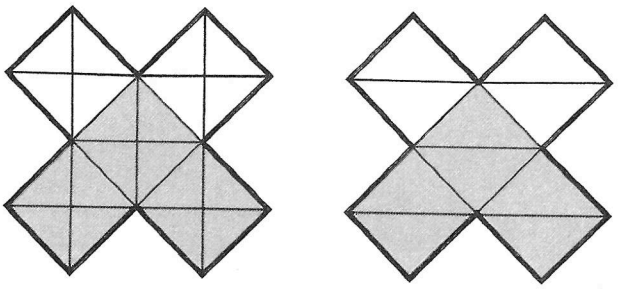
2 Copy and complete.

(a) $\frac{3}{5} = \frac{\square}{10}$ (b) $\frac{1}{3} = \frac{5}{\square}$ (c) $\frac{7}{8} = \frac{\square}{16}$ (d) $\frac{7}{10} = \frac{\square}{50}$

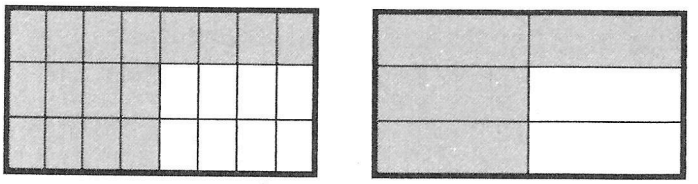
(e) $\frac{1}{2} = \frac{6}{\square}$ (f) $\frac{3}{4} = \frac{\square}{16}$ (g) $\frac{5}{6} = \frac{20}{\square}$ (h) $\frac{9}{50} = \frac{\square}{100}$

3 Write equal fractions for each pair of mosaic designs.

(a)



(b)



4 Copy and complete.

(a) $\frac{9}{12} = \frac{\square}{4}$ (b) $\frac{8}{20} = \frac{\square}{5}$ (c) $\frac{35}{50} = \frac{\square}{10}$ (d) $\frac{30}{42} = \frac{5}{\square}$

(e) $\frac{27}{36} = \frac{3}{\square}$ (f) $\frac{12}{32} = \frac{\square}{8}$ (g) $\frac{63}{81} = \frac{\square}{9}$ (h) $\frac{14}{35} = \frac{2}{\square}$

5 Find the missing numbers.

(a) $\frac{60}{90} \overset{\div\square}{=} \frac{6}{9} \overset{\div\triangle}{=} \frac{2}{3}$

(b) $\frac{24}{60} \overset{\div\square}{=} \frac{4}{10} \overset{\div\triangle}{=} \frac{2}{5}$

(c) $\frac{36}{48} \overset{\div\square}{=} \frac{9}{12} \overset{\div\triangle}{=} \frac{3}{4}$

6 Simplify.

(a) $\frac{15}{60}$ (b) $\frac{42}{56}$ (c) $\frac{42}{70}$ (d) $\frac{36}{60}$ (e) $\frac{32}{80}$ (f) $\frac{60}{150}$

(g) $\frac{36}{96}$ (h) $\frac{20}{60}$ (i) $\frac{120}{160}$ (j) $\frac{240}{300}$ (k) $\frac{210}{270}$ (l) $\frac{400}{480}$