Simplifying and Equivalent fractions

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MATHS-SCHOOL

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Name:

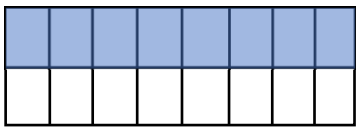
1) Find the values of the missing letters to make the fractions equivalent:

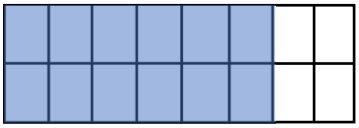
a) $\frac{5}{6} = \frac{20}{24}$ d) $\frac{8}{14} = \frac{24}{42}$ g) $\frac{6}{14} = \frac{18}{42}$ j) $\frac{1}{6} = \frac{18}{108}$ m) $\frac{1}{11} = \frac{8}{88}$

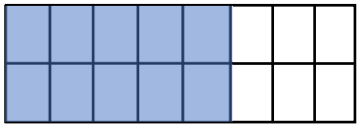
b) $\frac{4}{9} = \frac{12}{27}$ e) $\frac{6}{21} = \frac{36}{63}$ h) $\frac{6}{8} = \frac{48}{64}$ k) $\frac{5}{8} = \frac{75}{120}$ n) $\frac{7}{9} = \frac{56}{72}$

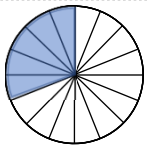
c) $\frac{5}{12} = \frac{15}{36}$ f) $\frac{3}{9} = \frac{24}{72}$ i) $\frac{6}{9} = \frac{48}{72}$ l) $\frac{4}{19} = \frac{24}{114}$ o) $\frac{11}{13} = \frac{77}{91}$

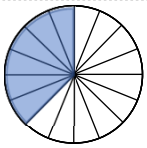
Shade the shapes provide to match the given equivalent fraction

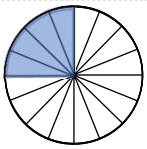
a) $\frac{1}{2}$ 

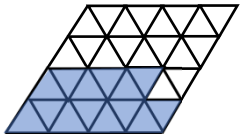
b) $\frac{3}{4}$ 

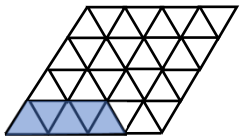
c) $\frac{5}{8}$ 

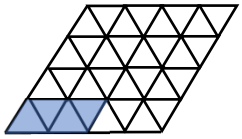
d) $\frac{5}{16}$ 

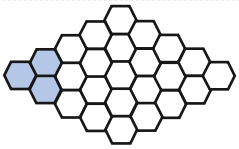
e) $\frac{3}{8}$ 

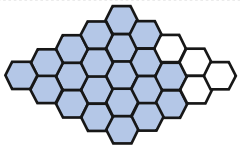
f) $\frac{1}{4}$ 

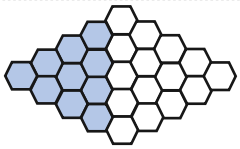
g) $\frac{7}{16}$ 

h) $\frac{5}{32}$ 

i) $\frac{10}{80}$ 

j) $\frac{3}{25}$ 

k) $\frac{42}{50}$ 

l) $\frac{2}{5}$ 

Simplify the following fractions:

a) $\frac{4}{8}$	$\frac{1}{2}$	e) $\frac{20}{60}$	$\frac{1}{3}$	i) $\frac{42}{56}$	$\frac{3}{4}$	i) $\frac{8}{52}$	$\frac{2}{13}$
b) $\frac{4}{20}$	$\frac{1}{5}$	f) $\frac{24}{36}$	$\frac{2}{3}$	j) $\frac{63}{84}$	$\frac{3}{4}$	j) $\frac{70}{91}$	$\frac{10}{13}$
c) $\frac{3}{9}$	$\frac{1}{3}$	g) $\frac{18}{42}$	$\frac{3}{7}$	k) $\frac{45}{105}$	$\frac{3}{7}$	k) $\frac{45}{198}$	$\frac{5}{22}$
d) $\frac{8}{28}$	$\frac{2}{7}$	h) $\frac{10}{32}$	$\frac{5}{16}$	l) $\frac{72}{156}$	$\frac{6}{13}$	l) $\frac{40}{72}$	$\frac{5}{9}$

Exam question:

How many squares need to be shaded in the following diagram to make the amount shaded equivalent to:

a) $\frac{3}{5}$ 9

b) $\frac{8}{15}$ 23