Working with Fractions

(a)
Write $\frac{72}{81}$ in its simplest form.

$\frac{8}{9}$

(b)
$$\frac{5}{8} < \frac{5}{9}$$
True or false? Explain.

False. They can be written with a common denominator $\frac{5}{8} = \frac{45}{72}$ and $\frac{5}{9} = \frac{40}{72}$ so $\frac{5}{8}$ is greater

(c)
Work out $\frac{3}{7}$ of 91

39

(d)
Insert <, > or = in the statement to make it true.

$\frac{8}{11}$ $\boxed{>}$ $\frac{5}{7}$

(e)
Put these fractions in order of size, smallest first:
$\frac{5}{6}$ $\quad$ $\frac{2}{3}$ $\quad$ $\frac{13}{18}$ $\quad$ $\frac{5}{9}$

$\frac{5}{9}, \frac{2}{3}, \frac{13}{18}, \frac{5}{6}$

(f)
Yousef scores $\frac{11}{15}$ in a French test and $\frac{17}{20}$ in a German test. Which score is better?

$\frac{17}{20}$

(g)
Express £2.50 as a fraction of £8, giving your answer in its simplest form

$\frac{5}{16}$

(h)
Freddie earns £1500 per month. He spends $\frac{7}{25}$ of his money on rent. How much does he spend on rent per month?

£420

(i)
Alyssa has £20. She spends $\frac{3}{10}$ of her money on sweets and $\frac{3}{8}$ on a present. How much does Alyssa have left?

£6.50

(j)
Put these numbers in order, smallest first:
$\frac{7}{9}$ $\quad$ 73% $\quad$ 0.7 $\quad$ $\frac{18}{25}$

$0.7, \frac{18}{25}, 73\%, \frac{7}{9}$

(k)
Express 80 g as a fraction of 2 kg, giving your answer in its simplest form

$\frac{1}{25}$

(l)
Find the fraction that is halfway between $\frac{1}{5}$ and $\frac{3}{8}$

$\frac{23}{80}$