QUIZ Fractions and Equations

NO Calculator

1. Simplify: [3]

a) $\frac{25}{15}=$ b) $\frac{9}{27}=$ c) $\frac{42}{7}=$
2. Evaluate and simplify (keep improper fractions as your answers when relevant): [12]

a) $\frac{3}{4}-\frac{7}{4}=$

b) $\frac{2}{3}+\frac{5}{6}=$

c) $\frac{1}{4}+\frac{2}{3}=$

d) $5-\frac{3}{4}=$

e) $2\frac{1}{3}+3\frac{1}{4}=$

f) $\frac{2}{3}×\frac{4}{5}=$

g) $5×\frac{3}{4}=$

h) $2\frac{2}{3}×4\frac{1}{5}=$

i) $\frac{12}{5}×\frac{20}{9}=$

j) $\frac{\frac{2}{3}}{ \frac{10}{9} }=$

k) $\frac{15}{ \frac{25}{3} }=$

l) $\frac{\frac{36}{7}}{ 27 }=$
3. Solve the following Equations. Give exact values only: [10]
4. $3x-5=5x+4$
5. $2\left(3x+5\right)=4x-8$
6. $\frac{3}{4}\left(x-2\right)=2x+1$
7. $\frac{2x-3}{4}=\frac{1}{3}(x-2)$
8. $\frac{2}{3}x+\frac{1}{4}=x-\frac{1}{6}$