Constant Acceleration Equations

1. Sort the questions on your sheet by which constant acceleration equation you need to use to solve them.
2. Solve the questions. The quantities u, v, s and t are all positive, but a could be positive or negative.
3. Could you write a worded problem for which they could each apply?

a) $u = 9\,ms^{-1}$, $a = 4\,ms^{-2}$, $s = 5\,m$ Find v	b) $u = 10\,ms^{-1}$, $v = 14\,ms^{-1}$, $a = 3\,ms^{-2}$ Find s
c) $u = 17\,ms^{-1}$, $v = 11\,ms^{-1}$, $s = 56\,m$ Find a	d) $u = 14\,ms^{-1}$, $a = -2\,ms^{-2}$, $t = 5\,secs$ Find s
e) $v = 20\,ms^{-1}$, $a = 1\,ms^{-2}$, $t = 6\,secs$ Find s	f) $u = 10\,ms^{-1}$, $s = 65\,m$, $t = 5\,secs$ Find a
g) $u = 18\,ms^{-1}$, $v = 12\,ms^{-1}$, $s = 210\,m$ Find t	h) $u = 9\,ms^{-1}$, $a = 4\,ms^{-2}$, $s = 35\,m$ Find t
i) $u = 20\,ms^{-1}$, $s = 110\,m$, $t = 5\,secs$ Find v	j) $s = 93\,m$, $v = 42\,ms^{-1}$, $t = 1.5\,secs$ Find a
k) $u = 24\,ms^{-1}$, $v = 10\,ms^{-1}$, $a = -0.7\,ms^{-2}$ Find t	l) $s = 35\,m$, $v = 12\,ms^{-1}$, $a = 2\,ms^{-2}$ Find u
m) $v = 27\,ms^{-1}$, $s = 40\,m$, $a = -4.5\,ms^{-2}$ Find t	n) $a = 7\,ms^{-2}$, $s = 100\,m$, $v - u = 20\,ms^{-1}$ Find u