M1. (a) use of
$$z = v/c$$

to give $v = zc = 0.057 \times 3 \times 10^{8} \checkmark$
 $= 1.71 \times 10^{7} \text{ms}^{-1} = 1.71 \times 10^{4} \text{ kms}^{-1}$
use of $v = Hd$
to give $d = v/H = 1.71 \times 10^{4} / 65 \checkmark$
 $= 263 \checkmark \text{Mpc} \checkmark$

(b) (Strong) radio sources ✓

[5]

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