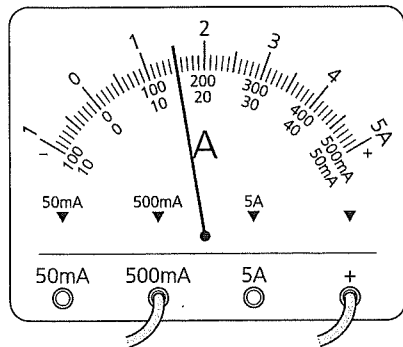
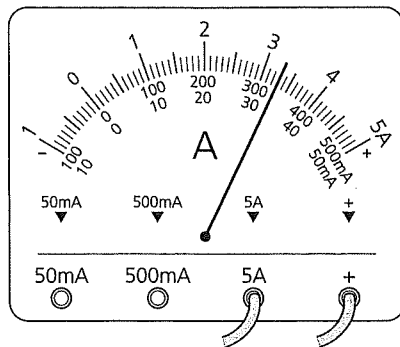


Reading an Analog Ammeter Problems

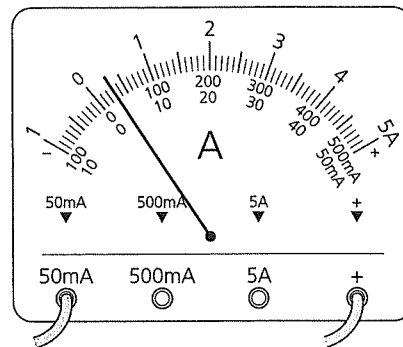
Determine the value of current indicated in the following ammeters.



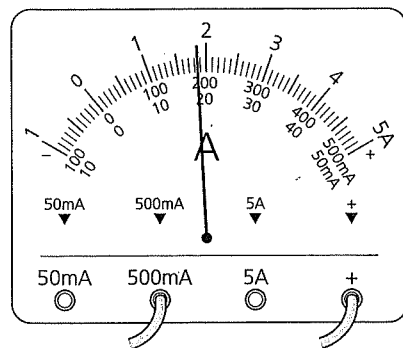
(a) _____



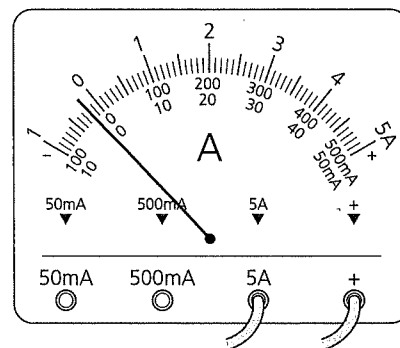
(b) _____



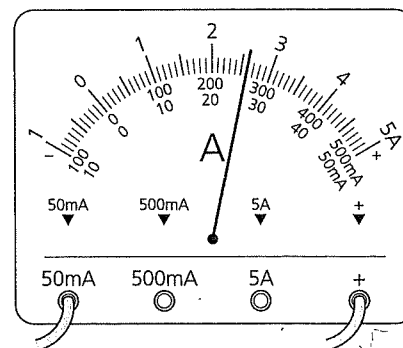
(c) _____



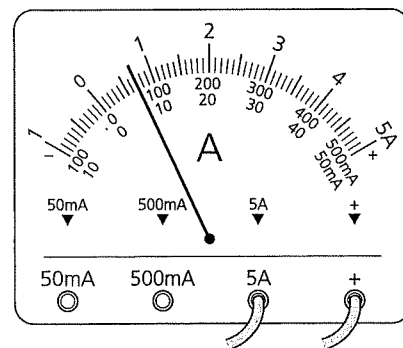
(d) _____



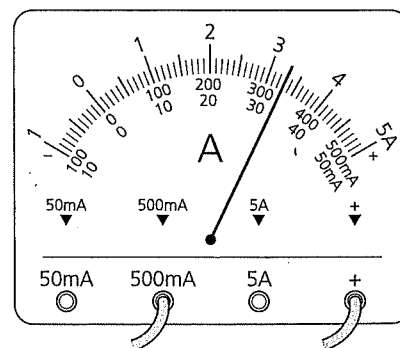
(e) _____



(f) _____



(g) _____



(h) _____

Electric Current Problems

1. The filament of a light has 3150 C of charge flow through it in 35 min. What is the current in the filament?
2. A load has a current of 88 mA flow through it. What quantity of charge flows through the load in 51 s?
3. A heater has a current of 11 A flow through it. How many hours will it take for 80 kC of charge to flow through the heater?
4. How many electrons are in a charge of 33 C?
5. A student from a different universe calculates that $4.6 \mu\text{C}$ of charge is 3.1×10^{13} electrons. What is the charge on an electron in that universe?
6. In a high voltage transmission line, 1.4×10^{22} electrons go past a tower in 25 s. What is the current in the transmission line?
7. A load has a current of 12 mA flow through it. How many electrons flow through the load in 35 s?