1. $\mathrm{c}, \mathrm{d}$
2. $17 ; 13 ; n-1 ; \frac{1}{3-2 i}=\frac{1}{3-2 i} \frac{3+2 i}{3+2 i}=\frac{3}{13}+\frac{2}{13} i$
3. Closure and associativity follow from the definition of multiplication; $a=b=c=0$ gives the identity; we may find inverses by solving the equations $a+a^{\prime}=0, b^{\prime}+a c^{\prime}+b=0$, $c^{\prime}+c=0$ for $a^{\prime}, b^{\prime}, c^{\prime}$.
