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3. $\frac{1}{2} \times \frac{1}{3} = \frac{1}{6}$, $\frac{1}{6} \times \frac{1}{4} = \frac{1}{24}$, $\frac{1}{24} \times \frac{1}{5} = \frac{1}{120}$, $\frac{1}{120} \times \frac{1}{6} = \frac{1}{720}$, $\frac{1}{720} \times \frac{1}{7} = \frac{1}{5040}$, $\frac{1}{5040} \times \frac{1}{8} = \frac{1}{40320}$, $\frac{1}{40320} \times \frac{1}{9} = \frac{1}{362880}$, $\frac{1}{362880} \times \frac{1}{10} = \frac{1}{3628800}$, $\frac{1}{3628800} \times \frac{1}{11} = \frac{1}{39916800}$, $\frac{1}{39916800} \times \frac{1}{12} = \frac{1}{479001600}$, $\frac{1}{479001600} \times \frac{1}{13} = \frac{1}{6227020800}$, $\frac{1}{6227020800} \times \frac{1}{14} = \frac{1}{87178291200}$, $\frac{1}{87178291200} \times \frac{1}{15} = \frac{1}{1307674368000}$, $\frac{1}{1307674368000} \times \frac{1}{16} = \frac{1}{20922790016000}$, $\frac{1}{20922790016000} \times \frac{1}{17} = \frac{1}{355687430272000}$, $\frac{1}{355687430272000} \times \frac{1}{18} = \frac{1}{6402373744992000}$, $\frac{1}{6402373744992000} \times \frac{1}{19} = \frac{1}{121645091154848000}$, $\frac{1}{121645091154848000} \times \frac{1}{20} = \frac{1}{2432901823096960000}$, $\frac{1}{2432901823096960000} \times \frac{1}{21} = \frac{1}{51090938285037120000}$, $\frac{1}{51090938285037120000} \times \frac{1}{22} = \frac{1}{1124000642280816640000}$, $\frac{1}{1124000642280816640000} \times \frac{1}{23} = \frac{1}{25852014772458782720000}$, $\frac{1}{25852014772458782720000} \times \frac{1}{24} = \frac{1}{620448354538910785280000}$, $\frac{1}{620448354538910785280000} \times \frac{1}{25} = \frac{1}{15511208863472769632000000}$, $\frac{1}{15511208863472769632000000} \times \frac{1}{26} = \frac{1}{403291430450292010432000000}$, $\frac{1}{403291430450292010432000000} \times \frac{1}{27} = \frac{1}{10888868622157884281651200000000}$, $\frac{1}{10888868622157884281651200000000} \times \frac{1}{28} = \frac{1}{304908321420360759886233600000000}$, $\frac{1}{304908321420360759886233600000000} \times \frac{1}{29} = \frac{1}{8842341321190462036690772800000000}$, $\frac{1}{8842341321190462036690772800000000} \times \frac{1}{30} = \frac{1}{265270239635713861090723184000000000}$, $\frac{1}{265270239635713861090723184000000000} \times \frac{1}{31} = \frac{1}{82233774285071296938124197120000000000}$, $\frac{1}{82233774285071296938124197120000000000} \times \frac{1}{32} = \frac{1}{2631480777122281502019974307840000000000}$, $\frac{1}{2631480777122281502019974307840000000000} \times \frac{1}{33} = \frac{1}{86838865755035289566659152158720000000000}$, $\frac{1}{86838865755035289566659152158720000000000} \times \frac{1}{34} = \frac{1}{2952521341171209835266411173406720000000000}$, $\frac{1}{2952521341171209835266411173406720000000000} \times \frac{1}{35} = \frac{1}{103738246941002339234324396069235200000000000}$, $\frac{1}{103738246941002339234324396069235200000000000} \times \frac{1}{36} = \frac{1}{3734576889876084212435678258492467200000000000}$, $\frac{1}{3734576889876084212435678258492467200000000000} \times \frac{1}{37} = \frac{1}{13817934482541511585991999556322128640000000000000}$, $\frac{1}{13817934482541511585991999556322128640000000000000} \times \frac{1}{38} = \frac{1}{524081510336577440246695983140240888320000000000000}$, $\frac{1}{524081510336577440246695983140240888320000000000000} \times \frac{1}{39} = \frac{1}{2044117890272652016968114334246963454400000000000000}$, $\frac{1}{2044117890272652016968114334246963454400000000000000} \times \frac{1}{40} = \frac{1}{81764715610906080678724573369878538176000000000000000}$, $\frac{1}{81764715610906080678724573369878538176000000000000000} \times \frac{1}{41} = \frac{1}{3352353340047149267827706508165020065216000000000000000}$, $\frac{1}{3352353340047149267827706508165020065216000000000000000} \times \frac{1}{42} = \frac{1}{140799841282000389248862673342930842739136000000000000000}$, $\frac{1}{140799841282000389248862673342930842739136000000000000000} \times \frac{1}{43} = \frac{1}{6054393173124016737593103154746026237783744000000000000000}$, $\frac{1}{6054393173124016737593103154746026237783744000000000000000} \times \frac{1}{44} = \frac{1}{26639350001725673655411653881082517558247801600000000000000000}$, $\frac{1}{26639350001725673655411653881082517558247801600000000000000000} \times \frac{1}{45} = \frac{1}{1198770750081655314494519424653713290121151072000000000000000000}$, $\frac{1}{1198770750081655314494519424653713290121151072000000000000000000} \times \frac{1}{46} = \frac{1}{55137254503756154464747993534672771146073959296000000000000000000}$, $\frac{1}{55137254503756154464747993534672771146073959296000000000000000000} \times \frac{1}{47} = \frac{1}{2591450961676539159841155696129620243865476086720000000000000000000}$, $\frac{1}{2591450961676539159841155696129620243865476086720000000000000000000} \times \frac{1}{48} = \frac{1}{124389646160472879672375473414221771605542862152960000000000000000000}$, $\frac{1}{124389646160472879672375473414221771605542862152960000000000000000000} \times \frac{1}{49} = \frac{1}{60950926618631711039473971972968768086$

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