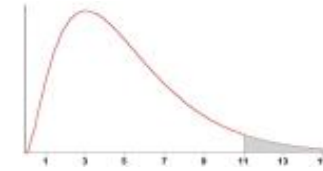


Tabla D.8: VALORES CRÍTICOS DE LA DISTRIBUCIÓN F (0,01)



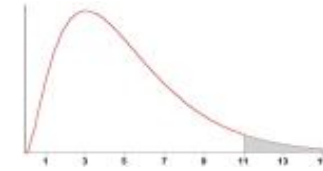
área a la derecha del valor crítico = 0,01

f 0.01

| g.d.l | Grados de libertad del Numerador | | | | | | | | | | | | | | | g.d.l |
|-------|----------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | |
| 1 | 4.052,2 | 4.999,5 | 5.403,4 | 5.624,6 | 5.763,6 | 5.859,0 | 5.928,4 | 5.981,1 | 6.022,5 | 6.055,8 | 6.083,3 | 6.106,3 | 6.125,9 | 6.142,7 | 6.157,3 | 1 |
| 2 | 98,503 | 99,000 | 99,166 | 99,249 | 99,299 | 99,333 | 99,356 | 99,374 | 99,388 | 99,399 | 99,408 | 99,416 | 99,422 | 99,428 | 99,433 | 2 |
| 3 | 34,116 | 30,817 | 29,457 | 28,710 | 28,237 | 27,911 | 27,672 | 27,489 | 27,345 | 27,229 | 27,133 | 27,052 | 26,983 | 26,924 | 26,872 | 3 |
| 4 | 21,198 | 18,000 | 16,694 | 15,977 | 15,522 | 15,207 | 14,976 | 14,799 | 14,659 | 14,546 | 14,452 | 14,374 | 14,307 | 14,249 | 14,198 | 4 |
| 5 | 16,258 | 13,274 | 12,060 | 11,392 | 10,967 | 10,672 | 10,456 | 10,289 | 10,158 | 10,051 | 9,963 | 9,888 | 9,825 | 9,770 | 9,722 | 5 |
| 6 | 13,745 | 10,925 | 9,780 | 9,148 | 8,746 | 8,466 | 8,260 | 8,102 | 7,976 | 7,874 | 7,790 | 7,718 | 7,657 | 7,605 | 7,559 | 6 |
| 7 | 12,246 | 9,547 | 8,451 | 7,847 | 7,460 | 7,191 | 6,993 | 6,840 | 6,719 | 6,620 | 6,538 | 6,469 | 6,410 | 6,359 | 6,314 | 7 |
| 8 | 11,259 | 8,649 | 7,591 | 7,006 | 6,632 | 6,371 | 6,178 | 6,029 | 5,911 | 5,814 | 5,734 | 5,667 | 5,609 | 5,559 | 5,515 | 8 |
| 9 | 10,561 | 8,022 | 6,992 | 6,422 | 6,057 | 5,802 | 5,613 | 5,467 | 5,351 | 5,257 | 5,178 | 5,111 | 5,055 | 5,005 | 4,962 | 9 |
| 10 | 10,044 | 7,559 | 6,552 | 5,994 | 5,636 | 5,386 | 5,200 | 5,057 | 4,942 | 4,849 | 4,772 | 4,706 | 4,650 | 4,601 | 4,558 | 10 |
| 11 | 9,646 | 7,206 | 6,217 | 5,668 | 5,316 | 5,069 | 4,886 | 4,744 | 4,632 | 4,539 | 4,462 | 4,397 | 4,342 | 4,293 | 4,251 | 11 |
| 12 | 9,330 | 6,927 | 5,953 | 5,412 | 5,064 | 4,821 | 4,640 | 4,499 | 4,388 | 4,296 | 4,220 | 4,155 | 4,100 | 4,052 | 4,010 | 12 |
| 13 | 9,074 | 6,701 | 5,739 | 5,205 | 4,862 | 4,620 | 4,441 | 4,302 | 4,191 | 4,100 | 4,025 | 3,960 | 3,905 | 3,857 | 3,815 | 13 |
| 14 | 8,862 | 6,515 | 5,564 | 5,035 | 4,695 | 4,456 | 4,278 | 4,140 | 4,030 | 3,939 | 3,864 | 3,800 | 3,745 | 3,698 | 3,656 | 14 |
| 15 | 8,683 | 6,359 | 5,417 | 4,893 | 4,556 | 4,318 | 4,142 | 4,004 | 3,895 | 3,805 | 3,730 | 3,666 | 3,612 | 3,564 | 3,522 | 15 |
| 16 | 8,531 | 6,226 | 5,292 | 4,773 | 4,437 | 4,202 | 4,026 | 3,890 | 3,780 | 3,691 | 3,616 | 3,553 | 3,498 | 3,451 | 3,409 | 16 |
| 17 | 8,400 | 6,112 | 5,185 | 4,669 | 4,336 | 4,102 | 3,927 | 3,791 | 3,682 | 3,593 | 3,519 | 3,455 | 3,401 | 3,353 | 3,312 | 17 |
| 18 | 8,285 | 6,013 | 5,092 | 4,579 | 4,248 | 4,015 | 3,841 | 3,705 | 3,597 | 3,508 | 3,434 | 3,371 | 3,316 | 3,269 | 3,227 | 18 |
| 19 | 8,185 | 5,926 | 5,010 | 4,500 | 4,171 | 3,939 | 3,765 | 3,631 | 3,523 | 3,434 | 3,360 | 3,297 | 3,242 | 3,195 | 3,153 | 19 |
| 20 | 8,096 | 5,849 | 4,938 | 4,431 | 4,103 | 3,871 | 3,699 | 3,564 | 3,457 | 3,368 | 3,294 | 3,231 | 3,177 | 3,130 | 3,088 | 20 |
| 21 | 8,017 | 5,780 | 4,874 | 4,369 | 4,042 | 3,812 | 3,640 | 3,506 | 3,398 | 3,310 | 3,236 | 3,173 | 3,119 | 3,072 | 3,030 | 21 |
| 22 | 7,945 | 5,719 | 4,817 | 4,313 | 3,988 | 3,758 | 3,587 | 3,453 | 3,346 | 3,258 | 3,184 | 3,121 | 3,067 | 3,019 | 2,978 | 22 |
| 23 | 7,881 | 5,664 | 4,765 | 4,264 | 3,939 | 3,710 | 3,539 | 3,406 | 3,299 | 3,211 | 3,137 | 3,074 | 3,020 | 2,973 | 2,931 | 23 |
| 24 | 7,823 | 5,614 | 4,718 | 4,218 | 3,895 | 3,667 | 3,496 | 3,363 | 3,256 | 3,168 | 3,094 | 3,032 | 2,977 | 2,930 | 2,889 | 24 |
| 25 | 7,770 | 5,568 | 4,675 | 4,177 | 3,855 | 3,627 | 3,457 | 3,324 | 3,217 | 3,129 | 3,056 | 2,993 | 2,939 | 2,892 | 2,850 | 25 |
| 26 | 7,721 | 5,526 | 4,637 | 4,140 | 3,818 | 3,591 | 3,421 | 3,288 | 3,182 | 3,094 | 3,021 | 2,958 | 2,904 | 2,857 | 2,815 | 26 |
| 27 | 7,677 | 5,488 | 4,601 | 4,106 | 3,785 | 3,558 | 3,388 | 3,256 | 3,149 | 3,062 | 2,988 | 2,926 | 2,871 | 2,824 | 2,783 | 27 |
| 28 | 7,636 | 5,453 | 4,568 | 4,074 | 3,754 | 3,528 | 3,358 | 3,226 | 3,120 | 3,032 | 2,959 | 2,896 | 2,842 | 2,795 | 2,753 | 28 |
| 29 | 7,598 | 5,420 | 4,538 | 4,045 | 3,725 | 3,499 | 3,330 | 3,198 | 3,092 | 3,005 | 2,931 | 2,868 | 2,814 | 2,767 | 2,726 | 29 |
| 30 | 7,562 | 5,390 | 4,510 | 4,018 | 3,699 | 3,473 | 3,304 | 3,173 | 3,067 | 2,979 | 2,906 | 2,843 | 2,789 | 2,742 | 2,700 | 30 |
| 31 | 7,530 | 5,362 | 4,484 | 3,993 | 3,675 | 3,449 | 3,281 | 3,149 | 3,043 | 2,955 | 2,882 | 2,820 | 2,765 | 2,718 | 2,677 | 31 |
| 32 | 7,499 | 5,336 | 4,459 | 3,969 | 3,652 | 3,427 | 3,258 | 3,127 | 3,021 | 2,934 | 2,860 | 2,798 | 2,744 | 2,696 | 2,655 | 32 |
| 33 | 7,471 | 5,312 | 4,437 | 3,948 | 3,630 | 3,406 | 3,238 | 3,106 | 3,000 | 2,913 | 2,840 | 2,777 | 2,723 | 2,676 | 2,634 | 33 |
| 34 | 7,444 | 5,289 | 4,416 | 3,927 | 3,611 | 3,386 | 3,218 | 3,087 | 2,981 | 2,894 | 2,821 | 2,758 | 2,704 | 2,657 | 2,615 | 34 |
| 35 | 7,419 | 5,268 | 4,396 | 3,908 | 3,592 | 3,368 | 3,200 | 3,069 | 2,963 | 2,876 | 2,803 | 2,740 | 2,686 | 2,639 | 2,597 | 35 |
| 40 | 7,314 | 5,179 | 4,313 | 3,828 | 3,514 | 3,291 | 3,124 | 2,993 | 2,888 | 2,801 | 2,727 | 2,665 | 2,611 | 2,563 | 2,522 | 40 |
| 60 | 7,077 | 4,977 | 4,126 | 3,649 | 3,339 | 3,119 | 2,953 | 2,823 | 2,718 | 2,632 | 2,559 | 2,496 | 2,442 | 2,394 | 2,352 | 60 |
| 80 | 6,963 | 4,881 | 4,036 | 3,563 | 3,255 | 3,036 | 2,871 | 2,742 | 2,637 | 2,551 | 2,478 | 2,415 | 2,361 | 2,313 | 2,271 | 80 |
| 90 | 6,925 | 4,849 | 4,007 | 3,535 | 3,228 | 3,009 | 2,845 | 2,715 | 2,611 | 2,524 | 2,451 | 2,389 | 2,334 | 2,286 | 2,244 | 90 |
| 100 | 6,895 | 4,824 | 3,984 | 3,513 | 3,206 | 2,988 | 2,823 | 2,694 | 2,590 | 2,503 | 2,430 | 2,368 | 2,313 | 2,265 | 2,223 | 100 |
| 120 | 6,851 | 4,787 | 3,949 | 3,480 | 3,174 | 2,956 | 2,792 | 2,663 | 2,559 | 2,472 | 2,399 | 2,336 | 2,282 | 2,234 | 2,192 | 120 |
| inf. | 6,635 | 4,605 | 3,782 | 3,319 | 3,017 | 2,802 | 2,639 | 2,511 | 2,407 | 2,321 | 2,248 | 2,185 | 2,130 | 2,082 | 2,039 | inf. |

Tabla D.8: VALORES CRÍTICOS DE LA DISTRIBUCIÓN F (0,01)

área a la derecha del valor crítico = 0,01

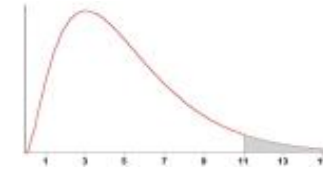


f 0.01

| g.d.l | Grados de libertad del Numerador | | | | | | | | | | | | | | | g.d.l |
|-------|----------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------|
| | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | |
| 1 | 6.170,1 | 6.181,4 | 6.191,5 | 6.200,6 | 6.208,7 | 6.216,1 | 6.222,8 | 6.229,0 | 6.234,6 | 6.239,8 | 6.244,6 | 6.249,1 | 6.253,2 | 6.257,1 | 6.260,6 | 1 |
| 2 | 99,437 | 99,440 | 99,444 | 99,447 | 99,449 | 99,452 | 99,454 | 99,456 | 99,458 | 99,459 | 99,461 | 99,462 | 99,463 | 99,465 | 99,466 | 2 |
| 3 | 26,827 | 26,787 | 26,751 | 26,719 | 26,690 | 26,664 | 26,640 | 26,618 | 26,598 | 26,579 | 26,562 | 26,546 | 26,531 | 26,517 | 26,505 | 3 |
| 4 | 14,154 | 14,115 | 14,080 | 14,048 | 14,020 | 13,994 | 13,970 | 13,949 | 13,929 | 13,911 | 13,894 | 13,878 | 13,864 | 13,850 | 13,838 | 4 |
| 5 | 9,680 | 9,643 | 9,610 | 9,580 | 9,553 | 9,528 | 9,506 | 9,485 | 9,466 | 9,449 | 9,433 | 9,418 | 9,404 | 9,391 | 9,379 | 5 |
| 6 | 7,519 | 7,483 | 7,451 | 7,422 | 7,396 | 7,372 | 7,351 | 7,331 | 7,313 | 7,296 | 7,280 | 7,266 | 7,253 | 7,240 | 7,229 | 6 |
| 7 | 6,275 | 6,240 | 6,209 | 6,181 | 6,155 | 6,132 | 6,111 | 6,092 | 6,074 | 6,058 | 6,043 | 6,029 | 6,016 | 6,003 | 5,992 | 7 |
| 8 | 5,477 | 5,442 | 5,412 | 5,384 | 5,359 | 5,336 | 5,316 | 5,297 | 5,279 | 5,263 | 5,248 | 5,234 | 5,221 | 5,209 | 5,198 | 8 |
| 9 | 4,924 | 4,890 | 4,860 | 4,833 | 4,808 | 4,786 | 4,765 | 4,746 | 4,729 | 4,713 | 4,698 | 4,685 | 4,672 | 4,660 | 4,649 | 9 |
| 10 | 4,520 | 4,487 | 4,457 | 4,430 | 4,405 | 4,383 | 4,363 | 4,344 | 4,327 | 4,311 | 4,296 | 4,283 | 4,270 | 4,258 | 4,247 | 10 |
| 11 | 4,213 | 4,180 | 4,150 | 4,123 | 4,099 | 4,077 | 4,057 | 4,038 | 4,021 | 4,005 | 3,990 | 3,977 | 3,964 | 3,952 | 3,941 | 11 |
| 12 | 3,972 | 3,939 | 3,909 | 3,883 | 3,858 | 3,836 | 3,816 | 3,798 | 3,780 | 3,765 | 3,750 | 3,736 | 3,724 | 3,712 | 3,701 | 12 |
| 13 | 3,778 | 3,745 | 3,716 | 3,689 | 3,665 | 3,643 | 3,622 | 3,604 | 3,587 | 3,571 | 3,556 | 3,543 | 3,530 | 3,518 | 3,507 | 13 |
| 14 | 3,619 | 3,586 | 3,556 | 3,529 | 3,505 | 3,483 | 3,463 | 3,444 | 3,427 | 3,412 | 3,397 | 3,383 | 3,371 | 3,359 | 3,348 | 14 |
| 15 | 3,485 | 3,452 | 3,423 | 3,396 | 3,372 | 3,350 | 3,330 | 3,311 | 3,294 | 3,278 | 3,264 | 3,250 | 3,237 | 3,225 | 3,214 | 15 |
| 16 | 3,372 | 3,339 | 3,310 | 3,283 | 3,259 | 3,237 | 3,216 | 3,198 | 3,181 | 3,165 | 3,150 | 3,137 | 3,124 | 3,112 | 3,101 | 16 |
| 17 | 3,275 | 3,242 | 3,212 | 3,186 | 3,162 | 3,139 | 3,119 | 3,101 | 3,084 | 3,068 | 3,053 | 3,039 | 3,026 | 3,014 | 3,003 | 17 |
| 18 | 3,190 | 3,158 | 3,128 | 3,101 | 3,077 | 3,055 | 3,035 | 3,016 | 2,999 | 2,983 | 2,968 | 2,955 | 2,942 | 2,930 | 2,919 | 18 |
| 19 | 3,116 | 3,084 | 3,054 | 3,027 | 3,003 | 2,981 | 2,961 | 2,942 | 2,925 | 2,909 | 2,894 | 2,880 | 2,868 | 2,855 | 2,844 | 19 |
| 20 | 3,051 | 3,018 | 2,989 | 2,962 | 2,938 | 2,916 | 2,895 | 2,877 | 2,859 | 2,843 | 2,829 | 2,815 | 2,802 | 2,790 | 2,778 | 20 |
| 21 | 2,993 | 2,960 | 2,931 | 2,904 | 2,880 | 2,857 | 2,837 | 2,818 | 2,801 | 2,785 | 2,770 | 2,756 | 2,743 | 2,731 | 2,720 | 21 |
| 22 | 2,941 | 2,908 | 2,879 | 2,852 | 2,827 | 2,805 | 2,785 | 2,766 | 2,749 | 2,733 | 2,718 | 2,704 | 2,691 | 2,679 | 2,667 | 22 |
| 23 | 2,894 | 2,861 | 2,832 | 2,805 | 2,781 | 2,758 | 2,738 | 2,719 | 2,702 | 2,686 | 2,671 | 2,657 | 2,644 | 2,632 | 2,620 | 23 |
| 24 | 2,852 | 2,819 | 2,789 | 2,762 | 2,738 | 2,716 | 2,695 | 2,676 | 2,659 | 2,643 | 2,628 | 2,614 | 2,601 | 2,589 | 2,577 | 24 |
| 25 | 2,813 | 2,780 | 2,751 | 2,724 | 2,699 | 2,677 | 2,657 | 2,638 | 2,620 | 2,604 | 2,589 | 2,575 | 2,562 | 2,550 | 2,538 | 25 |
| 26 | 2,778 | 2,745 | 2,715 | 2,688 | 2,664 | 2,642 | 2,621 | 2,602 | 2,585 | 2,569 | 2,554 | 2,540 | 2,526 | 2,514 | 2,503 | 26 |
| 27 | 2,746 | 2,713 | 2,683 | 2,656 | 2,632 | 2,609 | 2,589 | 2,570 | 2,552 | 2,536 | 2,521 | 2,507 | 2,494 | 2,481 | 2,470 | 27 |
| 28 | 2,716 | 2,683 | 2,653 | 2,626 | 2,602 | 2,579 | 2,559 | 2,540 | 2,522 | 2,506 | 2,491 | 2,477 | 2,464 | 2,451 | 2,440 | 28 |
| 29 | 2,689 | 2,656 | 2,626 | 2,599 | 2,574 | 2,552 | 2,531 | 2,512 | 2,495 | 2,478 | 2,463 | 2,449 | 2,436 | 2,423 | 2,412 | 29 |
| 30 | 2,663 | 2,630 | 2,600 | 2,573 | 2,549 | 2,526 | 2,506 | 2,487 | 2,469 | 2,453 | 2,437 | 2,423 | 2,410 | 2,398 | 2,386 | 30 |
| 31 | 2,640 | 2,606 | 2,577 | 2,550 | 2,525 | 2,502 | 2,482 | 2,463 | 2,445 | 2,429 | 2,414 | 2,399 | 2,386 | 2,374 | 2,362 | 31 |
| 32 | 2,618 | 2,584 | 2,555 | 2,527 | 2,503 | 2,480 | 2,460 | 2,441 | 2,423 | 2,406 | 2,391 | 2,377 | 2,364 | 2,351 | 2,340 | 32 |
| 33 | 2,597 | 2,564 | 2,534 | 2,507 | 2,482 | 2,460 | 2,439 | 2,420 | 2,402 | 2,386 | 2,370 | 2,356 | 2,343 | 2,330 | 2,319 | 33 |
| 34 | 2,578 | 2,545 | 2,515 | 2,488 | 2,463 | 2,440 | 2,420 | 2,400 | 2,383 | 2,366 | 2,351 | 2,337 | 2,323 | 2,311 | 2,299 | 34 |
| 35 | 2,560 | 2,527 | 2,497 | 2,470 | 2,445 | 2,422 | 2,401 | 2,382 | 2,364 | 2,348 | 2,333 | 2,318 | 2,305 | 2,292 | 2,281 | 35 |
| 40 | 2,484 | 2,451 | 2,421 | 2,394 | 2,369 | 2,346 | 2,325 | 2,306 | 2,288 | 2,271 | 2,256 | 2,241 | 2,228 | 2,215 | 2,203 | 40 |
| 60 | 2,315 | 2,281 | 2,251 | 2,223 | 2,198 | 2,175 | 2,153 | 2,134 | 2,115 | 2,098 | 2,083 | 2,068 | 2,054 | 2,041 | 2,028 | 60 |
| 80 | 2,233 | 2,199 | 2,169 | 2,141 | 2,115 | 2,092 | 2,070 | 2,050 | 2,032 | 2,015 | 1,999 | 1,983 | 1,969 | 1,956 | 1,944 | 80 |
| 90 | 2,206 | 2,172 | 2,142 | 2,114 | 2,088 | 2,065 | 2,043 | 2,023 | 2,004 | 1,987 | 1,971 | 1,956 | 1,942 | 1,928 | 1,916 | 90 |
| 100 | 2,185 | 2,151 | 2,120 | 2,092 | 2,067 | 2,043 | 2,021 | 2,001 | 1,983 | 1,965 | 1,949 | 1,934 | 1,919 | 1,906 | 1,893 | 100 |
| 120 | 2,154 | 2,119 | 2,089 | 2,060 | 2,035 | 2,011 | 1,989 | 1,969 | 1,950 | 1,932 | 1,916 | 1,901 | 1,886 | 1,873 | 1,860 | 120 |
| inf. | 2,000 | 1,965 | 1,934 | 1,905 | 1,878 | 1,854 | 1,831 | 1,810 | 1,791 | 1,773 | 1,755 | 1,739 | 1,724 | 1,710 | 1,696 | inf. |

Tabla D.8: VALORES CRÍTICOS DE LA DISTRIBUCIÓN F (0,01)

área a la derecha del valor crítico = 0,01



f 0.01

| g.d.l | Grados de libertad del Numerador | | | | | | | | | | | | | | | g.d.l |
|-------|----------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------|
| | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 50 | 60 | 100 | 120 | inf. | |
| 1 | 6.264,0 | 6.267,2 | 6.270,1 | 6.272,9 | 6.275,6 | 6.278,1 | 6.280,4 | 6.282,6 | 6.284,8 | 6.286,8 | 6.302,5 | 6.313,0 | 6.334,1 | 6.339,4 | 6.365,8 | 1 |
| 2 | 99,467 | 99,468 | 99,469 | 99,470 | 99,471 | 99,471 | 99,472 | 99,473 | 99,474 | 99,474 | 99,479 | 99,482 | 99,489 | 99,491 | 99,499 | 2 |
| 3 | 26,492 | 26,481 | 26,471 | 26,461 | 26,451 | 26,442 | 26,434 | 26,426 | 26,418 | 26,411 | 26,354 | 26,316 | 26,240 | 26,221 | 26,125 | 3 |
| 4 | 13,826 | 13,815 | 13,804 | 13,794 | 13,785 | 13,776 | 13,768 | 13,760 | 13,753 | 13,745 | 13,690 | 13,652 | 13,577 | 13,558 | 13,463 | 4 |
| 5 | 9,368 | 9,357 | 9,347 | 9,338 | 9,329 | 9,321 | 9,313 | 9,305 | 9,298 | 9,291 | 9,238 | 9,202 | 9,130 | 9,112 | 9,020 | 5 |
| 6 | 7,218 | 7,207 | 7,198 | 7,189 | 7,180 | 7,172 | 7,164 | 7,157 | 7,150 | 7,143 | 7,091 | 7,057 | 6,987 | 6,969 | 6,880 | 6 |
| 7 | 5,981 | 5,971 | 5,962 | 5,953 | 5,944 | 5,936 | 5,929 | 5,922 | 5,915 | 5,908 | 5,858 | 5,824 | 5,755 | 5,737 | 5,650 | 7 |
| 8 | 5,188 | 5,178 | 5,168 | 5,159 | 5,151 | 5,143 | 5,136 | 5,129 | 5,122 | 5,116 | 5,065 | 5,032 | 4,963 | 4,946 | 4,859 | 8 |
| 9 | 4,638 | 4,628 | 4,619 | 4,610 | 4,602 | 4,594 | 4,587 | 4,580 | 4,573 | 4,567 | 4,517 | 4,483 | 4,415 | 4,398 | 4,311 | 9 |
| 10 | 4,236 | 4,227 | 4,217 | 4,209 | 4,200 | 4,193 | 4,185 | 4,178 | 4,172 | 4,165 | 4,115 | 4,082 | 4,014 | 3,996 | 3,909 | 10 |
| 11 | 3,931 | 3,921 | 3,912 | 3,903 | 3,895 | 3,887 | 3,880 | 3,873 | 3,866 | 3,860 | 3,810 | 3,776 | 3,708 | 3,690 | 3,602 | 11 |
| 12 | 3,690 | 3,681 | 3,671 | 3,663 | 3,654 | 3,647 | 3,639 | 3,632 | 3,626 | 3,619 | 3,569 | 3,535 | 3,467 | 3,449 | 3,361 | 12 |
| 13 | 3,497 | 3,487 | 3,478 | 3,469 | 3,461 | 3,453 | 3,445 | 3,438 | 3,432 | 3,425 | 3,375 | 3,341 | 3,272 | 3,255 | 3,165 | 13 |
| 14 | 3,337 | 3,327 | 3,318 | 3,309 | 3,301 | 3,293 | 3,286 | 3,279 | 3,272 | 3,266 | 3,215 | 3,181 | 3,112 | 3,094 | 3,004 | 14 |
| 15 | 3,204 | 3,194 | 3,184 | 3,176 | 3,167 | 3,160 | 3,152 | 3,145 | 3,138 | 3,132 | 3,081 | 3,047 | 2,977 | 2,959 | 2,868 | 15 |
| 16 | 3,090 | 3,080 | 3,071 | 3,062 | 3,054 | 3,046 | 3,039 | 3,031 | 3,025 | 3,018 | 2,967 | 2,933 | 2,863 | 2,845 | 2,753 | 16 |
| 17 | 2,993 | 2,983 | 2,973 | 2,965 | 2,956 | 2,948 | 2,941 | 2,934 | 2,927 | 2,920 | 2,869 | 2,835 | 2,764 | 2,746 | 2,653 | 17 |
| 18 | 2,908 | 2,898 | 2,889 | 2,880 | 2,871 | 2,863 | 2,856 | 2,849 | 2,842 | 2,835 | 2,784 | 2,749 | 2,678 | 2,660 | 2,566 | 18 |
| 19 | 2,834 | 2,824 | 2,814 | 2,805 | 2,797 | 2,789 | 2,781 | 2,774 | 2,767 | 2,761 | 2,709 | 2,674 | 2,602 | 2,584 | 2,489 | 19 |
| 20 | 2,768 | 2,758 | 2,748 | 2,739 | 2,731 | 2,723 | 2,715 | 2,708 | 2,701 | 2,695 | 2,643 | 2,608 | 2,535 | 2,517 | 2,421 | 20 |
| 21 | 2,709 | 2,699 | 2,690 | 2,681 | 2,672 | 2,664 | 2,657 | 2,649 | 2,642 | 2,636 | 2,584 | 2,548 | 2,475 | 2,457 | 2,360 | 21 |
| 22 | 2,657 | 2,647 | 2,637 | 2,628 | 2,620 | 2,612 | 2,604 | 2,597 | 2,590 | 2,583 | 2,531 | 2,495 | 2,422 | 2,403 | 2,305 | 22 |
| 23 | 2,609 | 2,599 | 2,590 | 2,581 | 2,572 | 2,564 | 2,556 | 2,549 | 2,542 | 2,535 | 2,483 | 2,447 | 2,373 | 2,354 | 2,256 | 23 |
| 24 | 2,567 | 2,556 | 2,547 | 2,538 | 2,529 | 2,521 | 2,513 | 2,506 | 2,499 | 2,492 | 2,440 | 2,403 | 2,329 | 2,310 | 2,211 | 24 |
| 25 | 2,527 | 2,517 | 2,508 | 2,499 | 2,490 | 2,482 | 2,474 | 2,467 | 2,460 | 2,453 | 2,400 | 2,364 | 2,289 | 2,270 | 2,169 | 25 |
| 26 | 2,492 | 2,482 | 2,472 | 2,463 | 2,454 | 2,446 | 2,438 | 2,431 | 2,424 | 2,417 | 2,364 | 2,327 | 2,252 | 2,233 | 2,131 | 26 |
| 27 | 2,459 | 2,449 | 2,439 | 2,430 | 2,421 | 2,413 | 2,405 | 2,398 | 2,391 | 2,384 | 2,330 | 2,294 | 2,218 | 2,198 | 2,097 | 27 |
| 28 | 2,429 | 2,419 | 2,409 | 2,400 | 2,391 | 2,383 | 2,375 | 2,367 | 2,360 | 2,354 | 2,300 | 2,263 | 2,187 | 2,167 | 2,064 | 28 |
| 29 | 2,401 | 2,391 | 2,381 | 2,372 | 2,363 | 2,355 | 2,347 | 2,339 | 2,332 | 2,325 | 2,271 | 2,234 | 2,158 | 2,138 | 2,034 | 29 |
| 30 | 2,375 | 2,365 | 2,355 | 2,346 | 2,337 | 2,329 | 2,321 | 2,313 | 2,306 | 2,299 | 2,245 | 2,208 | 2,131 | 2,111 | 2,006 | 30 |
| 31 | 2,351 | 2,341 | 2,331 | 2,322 | 2,313 | 2,304 | 2,296 | 2,289 | 2,282 | 2,275 | 2,220 | 2,183 | 2,106 | 2,086 | 1,980 | 31 |
| 32 | 2,329 | 2,318 | 2,308 | 2,299 | 2,290 | 2,282 | 2,274 | 2,266 | 2,259 | 2,252 | 2,198 | 2,160 | 2,082 | 2,062 | 1,956 | 32 |
| 33 | 2,308 | 2,297 | 2,287 | 2,278 | 2,269 | 2,261 | 2,253 | 2,245 | 2,238 | 2,231 | 2,176 | 2,139 | 2,060 | 2,040 | 1,933 | 33 |
| 34 | 2,288 | 2,277 | 2,268 | 2,258 | 2,249 | 2,241 | 2,233 | 2,225 | 2,218 | 2,211 | 2,156 | 2,118 | 2,040 | 2,019 | 1,911 | 34 |
| 35 | 2,270 | 2,259 | 2,249 | 2,240 | 2,231 | 2,222 | 2,214 | 2,207 | 2,200 | 2,193 | 2,137 | 2,099 | 2,020 | 2,000 | 1,891 | 35 |
| 40 | 2,192 | 2,182 | 2,172 | 2,162 | 2,153 | 2,145 | 2,136 | 2,129 | 2,121 | 2,114 | 2,058 | 2,019 | 1,938 | 1,917 | 1,805 | 40 |
| 60 | 2,017 | 2,006 | 1,996 | 1,986 | 1,976 | 1,968 | 1,959 | 1,951 | 1,943 | 1,936 | 1,877 | 1,836 | 1,749 | 1,726 | 1,601 | 60 |
| 80 | 1,932 | 1,921 | 1,910 | 1,900 | 1,890 | 1,881 | 1,873 | 1,864 | 1,856 | 1,849 | 1,785 | 1,746 | 1,655 | 1,630 | 1,494 | 80 |
| 90 | 1,904 | 1,892 | 1,882 | 1,872 | 1,862 | 1,853 | 1,844 | 1,836 | 1,828 | 1,820 | 1,759 | 1,716 | 1,623 | 1,598 | 1,457 | 90 |
| 100 | 1,881 | 1,870 | 1,859 | 1,849 | 1,839 | 1,830 | 1,821 | 1,813 | 1,805 | 1,797 | 1,735 | 1,692 | 1,598 | 1,572 | 1,427 | 100 |
| 120 | 1,848 | 1,836 | 1,826 | 1,815 | 1,806 | 1,796 | 1,787 | 1,779 | 1,771 | 1,763 | 1,700 | 1,656 | 1,559 | 1,533 | 1,381 | 120 |
| inf. | 1,684 | 1,671 | 1,660 | 1,649 | 1,638 | 1,628 | 1,619 | 1,610 | 1,601 | 1,592 | 1,523 | 1,473 | 1,358 | 1,325 | 1,000 | inf. |