

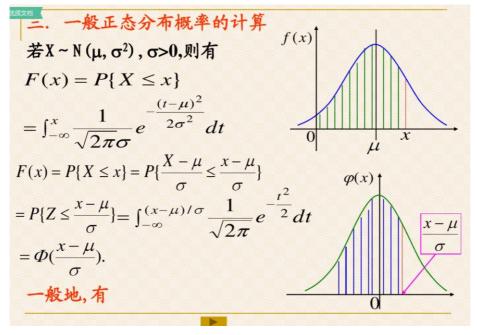
## 参考离差智商:

## (2)离差智商 (deviation IQ)

- 用统计学的标准分概念来计算智商,表示被试者的成 绩偏离同年龄组平均成绩的距离(以标准差为单位)。
- 公式:

$$IQ = 100 + 15(\frac{X - \overline{X}}{SD})$$

(韦克斯勒的离差智商)



给出

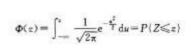
被试在某一维度得分标准分 $X_{标准}$ =该维度平均分+标准差\*(某被试该维度得分-被试所在年级在该维度的平均分)\被试所在年级在该维度的标准差

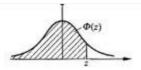
$$X_{\overline{k},\overline{k}} = \overline{X}_{\underline{\beta},\underline{k}} + SD_{\underline{\beta},\underline{k}} \times (\frac{X_{\underline{M}} - \overline{X}_{\underline{\beta},\underline{k}}}{SD_{\underline{\beta},\underline{k}}})$$

被试在某一维度得分标准分对应于正态分布图中的横坐标。

超过同年级百分比 = 
$$P \times 100\% = \phi(\frac{X_{\textit{标准}} - \bar{X}_{\textit{总体}}}{SD_{\textit{点体}}}) \times 100\%$$

附录:标准正态分布表





=	0	1	2	3	4	5	6	7	8	9
0.0	0.5000	0,5040	0.5080	0.5120	0.5160	0.5199	0.5239	0.5279	0.5319	0.5359
0.1	0.5398	0.5438	0.5478	0.5517	0.5557	0.5596	0.5636	0.5675	0.5714	0.5753
0.2	0.5793	0.5832	0.5871	0.5910	0.5948	0.5987	0.6026	0.6064	0.6103	0.6141
0.3	0.6179	0.6217	0.6255	0.6293	0.6331	0.6368	0.6406	0.6443	0.6480	0.6517
0.4	0.6554	0.6591	0.6628	0.6664	0.6700	0.6736	0.6772	0.6808	0.6844	0.6879
0.5	0.6915	0.6950	0.6985	0.7019	0.7054	0.7088	0.7123	0.7157	0.7190	0.7224
0.6	0.7257	0.7291	0, 7324	0.7357	0.7389	0.7422	0.7454	0.7486	0.7517	0.7549
0.7	0.7580	0.7611	0.7642	0.7673	0.7703	0.7734	0.7764	0.7794	0.7823	0.7852
0.8	0.7881	0.7910	0.7939	0.7967	0.7995	0.8023	0.8051	0.8078	0.8106	0.8133
0.9	0.8159	0.8186	0.8212	0.8238	0.8264	0.8289	0.8315	0.8340	0.8365	0.8389
1.0	0.8413	0.8438	0.8461	0.8485	0.8508	0.8531	0.8554	0.8577	0.8599	0.8521

z	0	1	2	3	4	5	- 6	7	8	9
1. 1	0.8643	0.8665	0.8586	0.8708	0.8729	0.8749	0.8770	0.8790	0.8810	0.8830
1.2	0.8849	0.8859	0.8888	0,8907	0.8925	0.8944	0.8962	0.8980	0.8997	0.9015
1.3	0.9032	0.9049	0.9066	0.9082	0. 9099	0.9115	0.9131	0.9147	0.9162	0.9177
1.4	0.9192	0.9207	0. 9222	0,9236	0.9251	0.9265	0.9278	0.9292	0.9306	0.9319
1.5	0. 9332	0.9345	0.9357	0.9370	0.9382	0.9394	0.9406	0.9418	0.9430	0.9441
1.6	0.9452	0.9463	0.9474	0, 9484	0.9495	0.9505	0.9515	0.9525	0.9535	0.9545
1.7	0.9554	0.9564	0.9573	0.9582	0.9591	0.9599	0.9608	0.9616	0.9625	0.9633
1.8	0.9641	0.9648	0.9656	0.9664	0.9671	0.9678	0.9686	0.9693	0.9700	0.9706
1.9	0.9713	0.9719	0.9726	0.9732	0.9738	0.9744	0.9750	0.9756	0.9762	0.9767
2.0	0.9772	0.9778	0.9783	0.9788	0.9793	0.9798	0.9803	0.9808	0.9812	0.9817
2.1	0.9821	0. 9826	0.9830	0.9834	0.9838	0.9842	0.9846	0.9850	0. 9854	0.9857
2.2	0.9861	0.9864	0.9868	0.9871	0.9874	0.9878	0.9881	0.9884	0.9887	0.9890
2.3	0.9893	0. 9896	0.9898	0.9901	0.9904	0.9906	0,9909	0.9911	0.9913	0.9916
2.4	0.9918	0. 9920	0.9922	0.9925	0.9927	0.9929	0.9931	0.9932	0.9934	0.9936
2.5	0.9938	0.9940	0.9941	0.9943	0.9945	0.9946	0.9948	0.9949	0.9951	0.9952
2.6	0.9953	0.9955	0.9956	0.9957	0.9959	0.9960	0.9961	0.9962	0.9963	0.9964
2.7	0.9965	0.9966	0.9967	0.9968	0.9969	0.9970	0.9971	0.9972	0.9973	0.9974
2.8	0.9974	0.9975	0.9976	0.9977	0.9977	0.9978	0.9979	0.9979	0.9980	0.9981
2.9	0.9981	0.9982	0.9982	0.9983	0.9984	0.9984	0.9985	0.9985	0.9986	0.9986
3.0	0.9987	0.9990	0.9993	0. 9995	0.9997	0.9998	0.9998	0.9999	0.9999	1.0000