

Lampiran 18

Tabel Bantu Perhitungan Korelasi Kebiasaan belajar (X_1) dan Lingkungan Belajar (X_2) di Rumah Terhadap Prestasi Belajar(Y) Siswa di SMP Negeri 3 Jati Agung

| No | X_1 | X_2 | Y | X_1^2 | X_2^2 | Y^2 | $X_1 \cdot Y$ | $X_2 \cdot Y$ | $X_1 \cdot X_2$ |
|----|-------|-------|------|---------|---------|--------|---------------|---------------|-----------------|
| 1 | 52 | 40 | 56 | 2704 | 1600 | 3136 | 2912 | 2240 | 2080 |
| 2 | 47 | 46 | 58 | 2209 | 2116 | 3364 | 2726 | 2668 | 2162 |
| 3 | 47 | 37 | 44 | 2209 | 1369 | 1936 | 2068 | 1628 | 1739 |
| 4 | 51 | 34 | 50 | 2601 | 1156 | 2500 | 2550 | 1700 | 1734 |
| 5 | 58 | 45 | 68 | 3364 | 2025 | 4624 | 3944 | 3060 | 2610 |
| 6 | 56 | 41 | 66 | 3136 | 1681 | 4356 | 3696 | 2706 | 2296 |
| 7 | 58 | 50 | 74 | 3364 | 2500 | 5476 | 4292 | 3700 | 2900 |
| 8 | 53 | 45 | 72 | 2809 | 2025 | 5184 | 3816 | 3240 | 2385 |
| 9 | 52 | 47 | 72 | 2704 | 2209 | 5184 | 3744 | 3384 | 2444 |
| 10 | 61 | 50 | 78 | 3721 | 2500 | 6084 | 4758 | 3900 | 3050 |
| 11 | 40 | 29 | 40 | 1600 | 841 | 1600 | 1600 | 1160 | 1160 |
| 12 | 50 | 29 | 47 | 2500 | 841 | 2209 | 2350 | 1363 | 1450 |
| 13 | 50 | 34 | 45 | 2500 | 1156 | 2025 | 2250 | 1530 | 1700 |
| 14 | 51 | 38 | 47 | 2601 | 1444 | 2209 | 2397 | 1786 | 1938 |
| 15 | 38 | 31 | 40 | 1444 | 961 | 1600 | 1520 | 1240 | 1178 |
| 16 | 52 | 34 | 45 | 2704 | 1156 | 2025 | 2340 | 1530 | 1768 |
| 17 | 45 | 34 | 47 | 2025 | 1156 | 2209 | 2115 | 1598 | 1530 |
| 18 | 53 | 48 | 72 | 2809 | 2304 | 5184 | 3816 | 3456 | 2544 |
| 19 | 51 | 36 | 55 | 2601 | 1296 | 3025 | 2805 | 1980 | 1836 |
| 20 | 56 | 42 | 57 | 3136 | 1764 | 3249 | 3192 | 2394 | 2352 |
| 21 | 52 | 39 | 55 | 2704 | 1521 | 3025 | 2860 | 2145 | 2028 |
| 22 | 55 | 36 | 50 | 3025 | 2401 | 2500 | 2750 | 1800 | 1980 |
| 23 | 45 | 31 | 47 | 2025 | 961 | 2209 | 2115 | 1457 | 1395 |
| 24 | 43 | 26 | 30 | 1849 | 676 | 900 | 1290 | 780 | 1118 |
| 25 | 40 | 35 | 45 | 1600 | 1225 | 2025 | 1800 | 1575 | 1400 |
| 26 | 56 | 39 | 55 | 3136 | 1521 | 3025 | 3080 | 2145 | 2184 |
| 27 | 43 | 33 | 57 | 1849 | 1089 | 3249 | 2451 | 1881 | 1419 |
| 28 | 54 | 33 | 50 | 2916 | 1849 | 2500 | 2700 | 1650 | 1782 |
| 29 | 49 | 39 | 50 | 2401 | 1521 | 2500 | 2450 | 1950 | 1911 |
| 30 | 59 | 43 | 60 | 3481 | 1849 | 3600 | 3540 | 2580 | 2537 |
| 31 | 48 | 42 | 60 | 2304 | 1764 | 3600 | 2880 | 2520 | 2016 |
| 32 | 59 | 48 | 70 | 3481 | 2304 | 4900 | 4130 | 3360 | 2832 |
| 33 | 48 | 34 | 52 | 2304 | 1156 | 2704 | 2496 | 1768 | 1632 |
| 34 | 57 | 40 | 58 | 3249 | 1600 | 3364 | 3306 | 2320 | 2280 |
| 35 | 59 | 44 | 60 | 3481 | 1936 | 3600 | 3540 | 2640 | 2596 |
| 36 | 58 | 40 | 56 | 3364 | 1600 | 3136 | 3248 | 2240 | 2320 |
| 37 | 51 | 45 | 66 | 2601 | 2025 | 4356 | 3366 | 2970 | 2295 |
| 38 | 57 | 42 | 64 | 3249 | 1764 | 4096 | 3648 | 2688 | 2394 |
| 39 | 59 | 43 | 66 | 3481 | 1849 | 4356 | 3894 | 2838 | 2537 |
| 40 | 55 | 36 | 58 | 3025 | 1296 | 3364 | 3190 | 2088 | 1980 |
| | 2051 | 1568 | 2242 | 108266 | 63247 | 130188 | 117623 | 89658 | 81492 |

Diketahui :

$$\begin{array}{ll} \sum X_1 & : 2051 \\ \sum X_1^2 & : 108266 \\ N & : 40 \end{array} \qquad \begin{array}{ll} \sum X_2 & : 1568 \\ \sum X_1 \cdot X_2 & : 81492 \\ \sum X_2^2 & : 63247 \end{array}$$

$$\begin{aligned} r_{X_1.X_2} &= \frac{N(\sum X_1 X_2) - (\sum X_1)(\sum X_2)}{\sqrt{\{N\sum X_1^2 - (\sum X_1)^2\}\{N\sum X_2^2 - (\sum X_2)^2\}}} \\ &= \frac{40.81492 - (2051)(1568)}{\sqrt{\{40.108266 - (2051)^2\}\{40.63247 - (1568)^2\}}} \\ &= \frac{3259680 - 3215968}{\sqrt{\{4330640 - 4206601\}\{2529880 - 2458624\}}} \\ &= \frac{43712}{\sqrt{124039.71256}} \\ &= \frac{43712}{94013,42} = 0,465 \end{aligned}$$

$$\begin{aligned} r_{X_1.X_2.Y} &= \sqrt{\frac{r_{X_1.Y}^2 + r_{X_2.Y}^2 - 2(r_{X_1.Y}) \cdot (r_{X_2.Y}) \cdot (r_{X_1.X_2})}{1 - r_{X_1.X_2}^2}} \\ &= \sqrt{\frac{0,711^2 + 0,624^2 - 2(0,711) \cdot (0,624) \cdot (0,465)}{1 - 0,465^2}} \\ &= \sqrt{\frac{0,894 - 0,411}{0,784}} \\ &= \sqrt{\frac{0,483}{0,784}} = \sqrt{0,616} = 0,784 \end{aligned}$$