

## Lampiran 12

**Uji Independent T-Tes**

## 1. Hipotesis:

$H_a$  : Ada Pengaruh Model Pembelajaran Kooperatif tipe Group Investigation terhadap hasil belajar matematika

$H_0$  : Tidak ada Pengaruh Model Pembelajaran Kooperatif tipe Group Investigation terhadap hasil belajar matematika

## 2. Kriteria pengujian:

a. Apabila nilai  $t_{hitung} \leq t_{tabel}$  maka  $H_a$  ditolak dan  $H_0$  diterima

b. Apabila nilai  $t_{hitung} \geq t_{tabel}$  maka  $H_a$  diterima dan  $H_0$  ditolak

Kelompok 1			Kelompok 2		
Kode	Nilai ( $x_i$ )	$(x_i)^2$	Kode	Nilai ( $x_i$ )	$(x_i)^2$
KI-1	90	8100	KJ-1	87	7569
KI-2	63	3969	KJ-2	89	7921
KI-3	45	2025	KJ-3	90	8100
KI-4	69	4761	KJ-4	38	1444
KI-5	64	4096	KJ-5	62	3844
KI-6	64	4096	KJ-6	44	1936
KI-7	90	8100	KJ-7	34	1156
KI-8	41	1681	KJ-8	44	1936
KI-9	79	6241	KJ-9	20	400
KI-10	75	5625	KJ-10	20	400
KI-11	87	7569	KJ-11	38	1444
KI-12	61	3721	KJ-12	44	1936
KI-13	92	8464	KJ-13	34	1156

Lanjutan...

Kelompok 1			Kelompok 2		
Kode	Nilai ( $x_i$ )	$(x_i)^2$	Kode	Nilai ( $x_i$ )	$(x_i)^2$
KI-14	49	2401	KJ-14	36	1296
KI-15	80	6400	KJ-15	90	8100
KI-16	43	1849	KJ-16	94	8836
KI-17	82	6724	KJ-17	61	3721
KI-18	74	5476	KJ-18	25	625
KI-19	87	7569	KJ-19	69	4761
KI-20	87	7569	KJ-20	69	4761
KI-21	92	8464	KJ-21	36	1296
KI-22	90	8100	KJ-22	87	7569
KI-23	63	3969	KJ-23	39	1521
KI-24	75	5625	KJ-24	41	1681
KI-25	75	5625	KJ-25	59	3481
KI-26	63	3969	KJ-26	59	3481
KI-27	87	7569	KJ-27	56	3136
KI-28	94	8836	KJ-28	93	8649
KI-29	90	8100	KJ-29	90	8100
KI-30	90	8100	KJ-30	87	7569
KI-31	90	8100	KJ-31	60	3600
KI-32	90	8100	KJ-32	57	3249
KI-33	88	7744	KJ-33	79	6241
$\Sigma$	2509	198737	$\Sigma$	1931	130915

Lanjutan...

Kelompok 1	Kelompok 2
$S_1^2 = \frac{n \sum x_i^2 - (\sum x_i)^2}{n(n-1)}$ $= \frac{33 \times 198737 - (2509)^2}{33 \times (33-1)}$ $= \frac{6558321 - 6295081}{33 \times 32}$ $= \frac{263240}{1056}$ $= 249,28$	$S_2^2 = \frac{n \sum x_i^2 - (\sum x_i)^2}{n(n-1)}$ $= \frac{33 \times 130915 - (1931)^2}{33 \times (33-1)}$ $= \frac{4320195 - 3729761}{33 \times 32}$ $= \frac{591434}{1056}$ $= 560,071$

$$t = \frac{\bar{x}_1 - \bar{x}_2}{\sqrt{\frac{s_1^2}{n_1} + \frac{s_2^2}{n_2}}}$$

$$= \frac{76,03 - 58,52}{\sqrt{\frac{249,28}{33} + 560,07}}$$

$$= \frac{17,51}{\sqrt{7,55 + 16,97}}$$

$$= \frac{17,51}{\sqrt{24,52}}$$

$$= \frac{17,51}{4,91}$$

$$= 3,537$$

### 3. Kesimpulan:

Berdasarkan perhitungan manual uji *independen t-tes* didapatkan nilai  $t_{hitung} = 3,537$ . Adapun nilai  $t_{tabel}(db=64, \alpha = 0.05)$  adalah 1,981. Artinya,  $t_{hitung} > t_{tabel}$ , berdasarkan kriteria pengujian diatas maka

terdapat pengaruh model pembelajaran kooperatif tipe group investigation terhadap hasil belajar matematika