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(Research and Development) R&D

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⁵⁴ Sugiono , *Metode penelitian pendidikan pendekatan kuantitatif, kualitatif, dan R& D* (Bandung: Alfabeta,2012), 38 .

⁵⁵ Ibid., 407.

⁵⁶ Nusa Putra, *Research & Development penelitian dan pengembangan: Suatu Pengantar* (Jakarta: Rajawali Prers, 2012),67.

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⁵⁷ Nusa, *Research & Development* , 174.

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43Suharsimi Ari Kunto, *Prosedur Penelitian: Suatu Pendekatan Praktek*, Jakata ; Rineka Cipta 1997. Hal : 229

⁵⁹ . Sugiono , *Metode penelitian* ,329.

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⁶⁰Lexi J. Moleong, *Metodologi Penelitian Kualitatif* (Bandung: Rosda, 2012),186.
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Satandar Kompetensi

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⁶² Sugiono , *Metode penelitian* ,199.

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(Significant)

(t-test) - :

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⁶³: (t-test) -

t =

$$\frac{Md}{\sqrt{\frac{\sum x^2 d}{N(N-1)}}}$$

:

Md = Mean dari perbedaan pre test dengan post test (post test – pre test)

()

Xd = Deviasi masing-masing subyek (d-Md)

$\sum d$

= Jumlah kuadrat deviasi

N = Subyek pada sampel

d.b. = di tentukan dengan N-1

⁶³ Suharsimi Arikunto, *Prosedur Penelitian Suatu Pendekatan Praktik*. (Jakarta: PT, Rineka Cipta2006), 149.