

o) Validitas

Dari penelitian yang dilakukan oleh Agustina Fatmawati (2016)

* Menghitung skor validitas dari validasi ahli

$$\text{Validitas (V)} = \frac{\text{Total skor Validator}}{\text{Total skor maksimum}} \times 100\%$$

* Kriteria validitas perangkat.

Skor	Kriteria Validitas
85,01 - 100,00 %	sangat Valid
70,01 - 85,00 %	cukup Valid
50,01 - 70,00 %	Kurang Valid
01,00 - 50,00 %	Tidak Valid

1) Silabus

$$V = \frac{\text{Total skor 2 Validator}}{\text{Total skor maksimum}} \times 100\%$$

$$= \frac{63 + 56}{130} \times 100\%$$

$$= \frac{119}{130} \times 100\%$$

$$= 0,915 \times 100\%$$

$$= 91,5\%$$

2) RPP

$$V = \frac{\text{Total skor 2 Validator}}{\text{Total skor maksimum}} \times 100\%$$

$$= \frac{63 + 52}{130} \times 100\%$$

$$= \frac{115}{130} \times 100\%$$

$$= 0,884 \times 100\%$$

$$= 88,4\%$$

3) LKPD

$$V = \frac{\text{Total skor 2 Validator}}{\text{Total skor maksimum}} \times 100\%$$

$$= \frac{82 + 74}{170} \times 100\%$$

$$= \frac{156}{170} \times 100\%$$

$$= 0,906 \times 100\%$$

$$= 90,6\%$$

4) Soal Konkrit

$$V = \frac{\text{Total skor 2 Validator}}{\text{Total skor maksimum}} \times 100\%$$

$$= \frac{33 + 31}{70} \times 100\%$$

$$= \frac{64}{70} \times 100\%$$

$$= 0,914 \times 100\%$$

$$= 91,4\%$$

> Reliabilitas

Dari penelitian yang dilakukan oleh Sudirman (2015)

* Menggunakan rumus Borich

$$R = 100 \left(1 - \frac{A-B}{A+B} \right)$$

R : Reliabilitas Instrumen.

A = Penilaian oleh validator memberikan nilai tinggi.

B = penilaian oleh validator memberikan nilai rendah.

* dikatakan reliabel apabila nilai $R \geq 75\%$

1. Validator 1 :

* Silabus :

$$R = 100 \left(1 - \frac{A-B}{A+B} \right)$$

$$= 100 \left(1 - \frac{5-4}{5+4} \right)$$

$$= 100 \left(1 - \frac{1}{9} \right)$$

$$= 100 (1 - 0,11)$$

$$= 100 (0,89)$$

$$= 89$$

* RPP :

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* soal kognitif

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2. Validator 2 :

* Silabus :

$$\begin{aligned}K &= 100 \left(1 - \frac{A-B}{A+B} \right) \\&= 100 \left(1 - \frac{5-3}{5+3} \right) \\&= 100 \left(1 - \frac{2}{8} \right) \\&= 100 (1 - 0,25) \\&= 100 (0,75) \\&= 75\end{aligned}$$

* RPP :

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* LKPD

$$\begin{aligned}K &= 100 \left(1 - \frac{A-B}{A+B} \right) \\&= 100 \left(1 - \frac{5-3}{5+3} \right) \\&= 100 \left(1 - \frac{1}{2} \right) \\&= 100 (1 - 0,5) \\&= 100 (0,5) \\&= 50\end{aligned}$$

* Soal kognitif

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