2. The data on exploratory factor structure of [pre-service] teacher beliefs about educational research scale

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Data in Brief





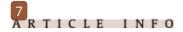
Data Article

The data on exploratory factor structure of [pre-service] teacher beliefs about educational research scale



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Teacher beliefs Educational research Exploratory factor analysis Pre-service teachers

ABSTRACT

This article presents data on factors that depict [pre-service] teacher beliefs about educational research. A cross-sectional survey was used to collect the data that involved 352 final-year students working on their undergraduate theses. The students were registered in the faculty of teacher training and education in one of the private universities with an A (excellent) accreditation in Jakarta, Indonesia. The participants were selected conveniently. Exploratory factor analysis was performed to reveal the factors comprised in the data. 49 out of 72 items formed five factors: negative views about educational research, positive views about educational research, knowledge about educational research, openmindedness, and accessibility.

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Specifications Table

Subject Education

Specific subject area Pre-service teacher, teacher education, teacher beliefs

Type of data Table

How data were acquired A cross-sectional sur 2 method was employed to collect the data. The data

were derived from a questionnaire. The questionnaire is provided as a

supplementary file in this paper.

Data format Raw Analyzed

Parameters for data collection The cross-sectional survey was adopted to target pre-service teachers who

were administratively enrolled as students of the 8th semester or more. A total of 352 pre-service teachers completed this survey, who were selected

Description of data collection A total of 352 pre-service teachers completed this survey, who were selecte using a convenience sampling method. The sampling was done at a private

university in Jakarta, Indonesia. After the screening process, 352 data were

evaluated using the Exploratory Factor Analysis (EFA).

Data source location

Data accessibility

The data are available in Mendeley Data:

https://data.mendeley.com/datasets/fm8hvpd9w7/1

Value of the Data

 One of the factors of gaps between educational research and practices is teacher beliefs about educational research. However, a tool for identifying this problem is still rare. This data describes an exploratory analysis of the factors included in teacher beliefs about educational research.

- The data can be useful for researchers who are interested in teacher education and professional teacher development.
- It is expected that the data can be used more effectively in further research to collect data on the factors that influence research-based teacher practice.
- The data serve as initial attempts to validate the five-factor constructs of teacher beliefs about educational research.
- The data can be compared with future research using the questionnaire with groups of inservice teachers.

1. Data Description

The data were perived from 72 questionnaire items for measuring teacher beliefs about cational research. The questionnaire is provided as a supplementary file in this paper or mendeley data (see http://dx.doi.org/10.17632/fm8hvpd9w7.1). Data in this article consists of two parts. The first part (see Table 1) is data that comprise factor loadings, mean of each item, and total variance that contribute to each factor. The data also comprises the degree of internal consistency and corrected item-total correlation (CITC). The second part (see Table 2) includes the mean of each factor, the standard deviation, and the range. The data also comprises correlations among factors.

Table 1 shows that there are five factors in the questionnaire data on teacher beliefs about educational research, namely (1) negative views on educational research, (2) positive views about educational research, (3) knowledge about educational research, (4) open-mindedness and (5) accessibility. The first factor consists of 16 items with a degree of internal consistency of 0.864, the second factor consists of 13 items with a degree of internal consistency of 0.833, the third factor consists of 8 items with a degree of internal consistency of 0.683, and the fourth factor consists of 7 items with a degree of internal consistency of 0.703, and fifth factor consists of 5 items with a degree of internal consistency of 0.561.

Table 2 shows that the open-mindedness factor has the highest mean, followed by positive views, knowledge about research, negative views, and accessibility. The strongest correlation is between positive views and open-mindedness.

 Table 1

 Factor loadings, CTC, variance explained, and internal consistency.

Factor loadings, CTC, variance explained, and internal consistency.						α		
Statements			Component			M	SD	CITC
	_	2	3	4	2			
44. Teachers will not have enough time to manage between teaching and learning	0.698	0.074	-0.150	0.012	0.002	3.946	1.174	0.581
50. Educational research was carried out because of administrative encouragement	0.693	-0.149	-0.023	-0.043	-0.234	4.242	1.236	0.570
(grandation), rains. 37. Educational research is a matter of researchers' personal interest.	0.658	0.074	-0.125	-0.124	-0.188	3.815	1.322	0.512
Educational research is only useful for administrative purpose	0.620	-0.247	0.044	0.004	-0.144	3.432	1.390	0.532
54. Research is carried out because of encouragement from rules and policies. 47. Research takes time away from other teacher's resnonsibilities	0.617	0.070	0.015	0.016	0120	3.824	1200	0.475
35. Educational research results are not convincing enough to be recognized for	0.580	-0.067	0.059	-0.057	-0.006	3.832	1.230	0.524
accuracy.								
49. My colleagues and I often wonder why teachers have to do research.	0.562	0.057	-0.063	0.021	-0.115	4.367	1.176	0.435
41. There is no problem even modgli there is no research. 23. Educational research results do not have a significant impact on teaching practice.	0.536	-0.030	0.020	0.103	0175	3 500	1265	0.528
I have not felt the impact of research on the educational field	0.523	0.016	-0.177	-0.023	0.094	3.631	1.256	0.447
39. Learning theories are often not relevant to the reality of the educational settings.	0.509	-0.036	0.151	0.086	0.067	4.415	1.101	0.472
	0.506	0.124	-0.074	0.101	0.196	4.358	0.944	0.453
Educational research results and suggestions are often not relevant to the problems encountered in class.	0.483	-0.005	0.048	0.138	0.220	4.0577	1.061	0.479
 Teaching practices that are based on research results and suggestions are difficult because of time constraints. 	0.465	0.158	0.022	0.116	0.203	4.375	0.962	0.433
	0.422	0.010	0.155	-0.034	0.269	4.227	1.083	0.455
	-0.057	0.651	-0.042	-0.062	0.014	5.119	0.665	0.522
36. Educational research develops the ability to make careful planning.	0.052	0.642	0.019	-0.077	0.032	5.028	0.574	0.519
	0.02	0.021	0.064	-0132	9000	5114	0.593	0.491
	0.030	0.597	-0.074	0.005	0.003	4.943	0.624	0.463
30. Educational research trains teachers to adapt to various learning conditions and	-0.059	0.589	0.064	-0.019	-0.062	5.125	0.614	0.534
Situations.	1000	202.0	100.0	0.061	1100	2007	77.70	0 503
	-0.049	0.551	-0.188	0.099	0.051	5.139	0.534	0.416
 Educational research results and suggestions add alternative solutions to problems faced in class. 	0.005	0.551	-0.101	0.082	-0.132	4.986	0.597	0.465
34. Educational research results have theoretical and/or practical views.	0.046	0.519	0.058	-0.070	-0.132	4.992	0.726	0.418
						(cont	(continued on next page)	xt page)

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3.8. Educational research develops the ability of teachers to manage classrooms and the class of the class	Statements			Component			∞ <u>≥</u>	SD	CITC
Ige classrooms and closes 0.500 0.110 0.079 -0.035 5.046 3.5. 0.023 0.438 0.189 -0.002 -0.035 5.046 1.t. -0.073 0.478 0.189 -0.0023 0.0225 5.021 1.t. -0.079 -0.201 0.790 -0.038 -0.124 4.688 -0.057 -0.112 0.696 -0.014 -0.162 4.784 0.018 0.105 0.483 0.013 4.784 0.015 0.105 0.483 0.019 4.784 0.015 0.119 0.481 0.026 0.143 5.017 0.015 0.119 0.481 0.026 0.143 5.017 0.016 0.019 0.018 0.109 0.109 1.109 4.460 mulated 0.021 0.023 0.109 0.019 0.026 0.143 5.190 aceciding on 0.008 0.019 0.010 0.079 0.019 0.069 5.								ı	
see classrooms and		_	2	3	4	2			
s. 6023 6.498 0.189 -0.002 -0.025 5.051 1.1 11.	Educational research develops the ability of teachers to mana interact with students.	-0.008	0.500	0.110	0.079	-0.035	5.046	0.678	0.481
tr. 10179 0.478 0.205 -0.0023 0.022 5.023 -0.0159 -0.201 0.790 -0.038 -0.124 4.688 -0.0159 -0.0112 0.590 -0.0038 -0.124 4.688 -0.018 0.1075 0.105 0.485 0.0018 0.0018 1.0175 0.105 0.485 0.0013 0.0032 4.591 0.005 0.188 0.483 0.0018 0.109 4.906 0.0085 0.189 0.481 0.026 0.143 5.017 0.005 0.218 0.228 0.105 0.005 0.103 0.005 0.143 5.017 0.0087 0.218 0.238 0.105 0.005 0.103 0.0091 4.900 0.0087 0.218 0.238 0.105 0.009 4.901 0.0087 0.008 0.0019 0.0	42. Educational research helps to recognize student characteristics.	0.023	0.498	0.189	-0.002	-0.025	5.051	0.690	0.448
s research results. -0.159	18. Educational research leads to teacher instruction improvement.	-0.179	0.478	0.205	-0.023	0.022	5.023	0.712	0.453
s research results. 0.018 0.0167 0.018 0.0175 0.018 0.018 0.0175 0.018 0.018 0.018 0.019 0.018 0.019 0.018 0.019 0.028 0.019 0.028 0.019 0.028 0.019 0.028 0.019 0.029 0.019 0.029 0.019 0.029 0.019 0.029 0.010 0.020 0.010 0.020 0.010 0.020 0.010 0.021 0.010 0.021 0.010 0.021 0.010 0.021 0.010 0.021 0.011 0.020 0.011 0.020 0.011 0.020 0.011 0.020 0.011 0.020 0.011 0.020 0.011 0.020 0.011 0.020 0.011 0.020 0.011 0.020 0.011 0.020 0.011 0.020 0.011 0.020 0.011 0.020 0.011 0.020 0.011 0.020 0.011 0.020 0.011 0.020 0.011 0.020 0.011 0.021 0.021 0.021 0.021 0.021 0.022 0.022 0.031 0.030 0.041 0.042 0.041 0.042 0.040 0.010 0.041 0.042 0.040 0.010 0.041 0.042 0.040 0.010 0.041 0.042 0.040 0.010 0.041 0.041 0.041	60. It is important to publish educational research results.	-0.159	-0.201	0.790	-0.038	-0.124	4.688	0.981	0.343
s research results. 0.018 0.167 0.520 0.028 0.051 5.034 0.005 0.036 0.105 0.485 0.013 0.013 0.032 4.591 0.036 0.188 0.481 0.0026 0.193 4.906 0.035 0.037 0.218 0.328 0.195 0.009 4.901 0.0087 0.218 0.328 0.195 0.009 4.901 0.0087 0.208 0.039 0.109 0.0091 0.0091 0.0087 0.218 0.328 0.195 0.009 4.901 0.002 0.008 0.0091 0.0091 0.002 0.100 0.0091 0.0091 0.0092 0.0091 0.0091 0.0092 0.0091 0.0091 0.0091 0.0092 0.0091 0.00	61. Research and publications complement each other.	-0.057	-0.112	969.0	-0.014	-0.162	4.784	0.843	0.429
s research results. 0.175 0.105 0.485 0.013 -0.032 4.591 0.036 0.188 0.481 -0.018 0.109 4.906 0.005s. 0.119 0.119 0.481 0.026 0.143 5.017 0.005s. 0.277 0.029 0.109 4.906 0.027 0.027 0.032 0.132 0.032 0.109 4.901 0.0087 0.218 0.232 0.195 0.099 4.901 0.022 0.008 0.029 0.0091 0.022 0.110 0.0073 0.675 0.056 5.165 0.005 0.010 0.022 0.110 0.0073 0.635 0.056 5.165 0.005 0.0165 0.0073 0.635 0.056 5.165 0.005 0.0092 0.0073 0.037 0.042 0.141 0.030 0.445 0.067 4.994 0.007 0.027 0.165 0.131 0.376 0.067 4.994 0.009 0.009 0.009 0.010 0.044 0.007 0.007 0.009 0.	The research method depends on the research purpose.	0.018	0.167	0.520	0.028	0.051	5.034	0.613	0.404
ooks, 0.036 0.188 0.483 -0.018 0.109 4.906 -0.119 0.119 0.481 0.026 0.143 5.017 -0.119 0.119 0.481 0.026 0.143 5.017 mulated 0.027 0.218 0.328 0.195 -0.009 4.901 e deciding on -0.008 -0.039 -0.039 -0.102 0.091 5.190 radicts their personal 0.022 0.110 -0.073 0.635 0.056 5.165 nat they believe is 0.165 0.179 0.635 0.056 5.130 what thas been done -0.067 -0.051 0.614 -0.051 4.994 ms in the classroom. 0.022 0.141 0.039 0.129 0.101 4.954 ms in the classroom. 0.027 0.165 0.131 0.376 4.753 ain. 0.037 0.058 0.129 0.101 0.445 -0.067 4.753 ain. 0.033	64. Problem statements can be derived from a review of previous research results.	0.175	0.105	0.485	0.013	-0.032	4.591	986.0	0.440
ooks. -0.119 0.119 0.481 0.026 0.143 5.017 mulated. 0.217 0.053 0.371 -0.184 -0.029 4.460 mulated. 0.087 0.218 0.328 0.195 -0.009 4.901 e deciding on -0.008 -0.039 -0.102 0.708 0.091 5.190 radicts their personal 0.022 0.110 -0.073 0.675 -0.060 5.531 nat they believe is 0.165 -0.067 -0.073 0.635 0.056 5.165 nat they believe is 0.165 -0.073 0.635 0.056 5.130 what thas been done -0.042 0.141 0.030 0.445 -0.067 4.994 ms in the classroom. 0.027 0.165 0.131 0.376 -0.178 5.307 and/or find in online 0.273 0.098 0.129 0.018 -0.178 3.477 fees to get them. 0.037 0.040 0.010 0.041 <td< td=""><td>68. Good references take precedence over research results.</td><td>0.036</td><td>0.188</td><td>0.483</td><td>-0.018</td><td>0.109</td><td>4.906</td><td>0.739</td><td>0.402</td></td<>	68. Good references take precedence over research results.	0.036	0.188	0.483	-0.018	0.109	4.906	0.739	0.402
ooks. 0.217 0.053 0.371 -0.184 -0.029 4.460 mulated 0.087 0.218 0.328 0.195 -0.009 4.901 e deciding on -0.008 -0.039 -0.102 0.708 0.091 5.190 radicts their personal 0.022 0.110 -0.073 0.675 -0.060 5.531 nat they believe is 0.165 -0.067 -0.073 0.635 0.056 5.130 hin class with peers. -0.069 0.092 -0.073 0.614 -0.051 4.903 ms in the classroom. 0.027 0.141 0.030 0.445 -0.067 4.994 ms in the classroom. 0.027 0.165 0.131 0.376 -0.178 5.307 ain. 0.027 0.165 0.131 0.276 -0.178 3.477 fees to get them. 0.337 -0.040 0.010 0.011 0.041 0.428 3.010 fees to get them. 0.073 0.235 0.03	A good title is able to reflect the contents of the research.	-0.119	0.119	0.481	0.026	0.143	5.017	0.813	0.315
mulated	Research results must be used as references more than textbooks.	0.217	0.053	0.371	-0.184	-0.029	4.460	996.0	0.442
radicts their personal	66. Research is conducted to test the theories that have been formulated.	0.087	0.218	0.328	0.195	-0.009	4.901	0.683	0.347
radicts their personal -0.096 -0.283 0.179 0.675 -0.060 5.531 nat they believe is 0.022 0.110 -0.073 0.635 0.056 5.165 nat they believe is 0.165 -0.067 -0.067 -0.078 0.586 -0.069 5.130 what has been done -0.042 0.141 0.030 0.445 -0.067 4.994 ms in the classroom. 0.027 0.165 0.131 0.376 -0.178 5.307 and/or find in online 0.273 0.098 0.129 0.010 -0.178 3.477 fees to get them. 0.337 -0.040 0.010 0.041 0.428 3.301 archers/lecturer is 0.073 0.235 0.036 -0.178 0.410 4.125 12.912 11.756 4.807 3.927 3.797 4.009 6.327 5.760 2.355 1.924 1.860 4.009 6.327 5.760 2.355 1.924 1.860	1. The teacher must accept a variety of possible opinions before deciding on	-0.008	-0.039	-0.102	0.708	0.091	5.190	0.778	0.476
radicts their personal -0.096 -0.283 0.179 0.675 -0.060 5.531 nat they believe is 0.022 0.110 -0.073 0.635 0.056 5.165 nat they believe is 0.165 -0.067 -0.078 0.636 -0.051 4.903 1 in class with peers. -0.069 0.092 -0.078 0.646 -0.069 5.130 what has been done -0.042 0.141 0.030 0.445 -0.067 4.994 ms in the classroom. 0.027 0.165 0.131 0.376 -0.178 5.307 and/or find in online 0.273 0.098 0.129 0.101 0.648 3.477 fees to get them. 0.337 -0.040 0.010 0.018 0.648 3.477 fees to get them. 0.073 0.235 0.036 -0.178 -0.410 4.125 archers/lecturer is 0.073 0.235 0.036 -0.178 -0.410 4.009 6.327 5.760	something.								
tradicts their personal 0.022 0.110 -0.073 0.635 0.056 5.165 at they believe is 0.165 -0.067 -0.051 0.614 -0.051 4.903 at they believe is 0.165 -0.067 -0.078 0.586 -0.069 5.130 what has been done -0.042 0.141 0.030 0.445 -0.067 4.994 and/or find in online 0.273 0.098 0.129 0.101 0.648 3.477 fees to get them. 0.181 0.096 -0.009 -0.186 0.648 3.477 fees to get them. 0.337 -0.040 0.010 0.041 0.428 3.301 archers/lecturer is 0.073 0.235 0.036 -0.178 - 0.1 78 4.009 12.912 11.756 4.807 3.927 3.797 6.327 5.760 2.355 1.924 1.860 0.561	Teachers must be good listeners.	-0.096	-0.283	0.179	0.675	-0.060	5.531	0.787	0.379
hat they believe is 0.165 -0.067 -0.051 0.614 -0.051 4.903 In class with peers. -0.069 0.092 -0.078 0.586 -0.069 5.130 what has been done -0.042 0.141 0.030 0.445 -0.067 4.994 ms in the classroom. 0.027 0.165 0.131 0.376 -0.178 5.307 and/or find in online 0.273 0.098 0.129 0.101 0.648 3.477 fees to get them. 0.337 -0.040 0.010 0.041 0.428 3.301 archers/lecturer is 0.073 0.235 0.036 -0.178 0.410 4.125 12.912 11.756 4.807 3.927 3.797 4.009 6.327 5.760 2.355 1.924 1.860 6.327 6.833 0.683 0.703 0.703 0.561	Teachers must consider the input from others, even if it contradicts their personal politions	0.022	0.110	-0.073	0.635	0.056	5.165	0.684	0.453
at they believe is 0.105 -0.06 0.092 -0.078 0.586 -0.069 5.130 what has been done -0.042 0.141 0.030 0.445 -0.067 4.994 ms in the classroom. 0.027 0.165 0.131 0.376 -0.178 5.307 and/or find in online 0.273 0.098 0.129 0.101 -0.675 4.753 ain. 0.181 0.096 -0.009 -0.186 0.648 3.477 fees to get them. 0.337 -0.040 0.010 0.041 0.428 3.301 archers/lecturer is 0.073 0.235 0.036 -0.178 -0.410 4.125 12.912 11.756 4.807 3.927 3.797 6.327 5.760 2.355 1.924 1.860 6.327 5.760 2.355 1.924 1.860 6.561	The above the till as execut the filling is	1010	6500	120.0	7130	0.051	4000	2020	0.400
## in class with peers. -0.069 -0.042 -0.042 -0.043 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.045 -0.057 -0.057 -0.058 -0.058 -0.059 -0.059 -0.178 -0.075 -0.057 -0.057 -0.058 -0.009 -0.180 -0.007 -0.040 -0.010 -0.040 -0.017 -0.048 -0.017 -0.048 -0.017 -0.040 -0.017 -0.040 -0.017 -0.040 -0.017 -0.040 -0.017 -0.040 -0.017 -0.040 -0.017 -0.040 -0.017 -0.040 -0.017 -0.040 -0.017 -0.040 -0.017 -0.040 -0.056 -0.056 -0.056 -0.056 -0.056 -0.056 -0.057 -0.057 -0.058	 reachers must be able to accept something different from what they believe is best. 	0.103	-0.067	10.00-	0.014	10.00-	4.903	0.706	0.495
what has been done -0.042 0.141 0.030 0.445 -0.067 4.994 ms in the classroom. 0.027 0.165 0.131 0.376 -0.178 5.307 and/or find in online 0.273 0.098 0.129 0.101 -0.675 4.753 ain. 0.181 0.096 -0.009 -0.186 0.648 3.477 fees to get them. 0.337 -0.040 0.010 0.041 0.428 3.37 archers/lecturer is 0.073 0.235 0.036 -0.178 -0.410 4.125 archers/lecturer is 0.073 0.235 0.036 -0.178 -0.410 4.105 12.912 11.756 4.807 3.927 3.797 4.009 6.327 5.760 2.355 1.924 1.860 6.351 0.864 0.833 0.703 0.703 0.703 0.703 0.561	4. Many advantages are gained when discussing problems faced in class with peers.	-0.069	0.092	-0.078	0.586	-0.069	5.130	0.679	0.395
y alternatives that can be done to solve problems in the classroom. 0.027 0.165 0.131 0.376 -0.178 5.307 er forms of research reports are easy to access and/or find in online 0.273 0.098 0.129 0.101 -0.675 4.753 er forms of research reports are difficult to obtain. 0.181 0.096 -0.009 -0.186 0.648 3.477 er forms of research reports require expensive fees to get them. 0.337 -0.040 0.010 0.041 0.428 3.301 g about educational research with experts/researchers/lecturer is 0.073 0.035 0.036 -0.178 -0.410 4.125 nre a problem in obtaining literature. 0.285 0.034 0.112 0.027 0.346 4.009 e 6.327 5.760 2.355 1.924 1.860 0.864 0.833 0.683 0.703 0.703 0.561	It is important to try to implement a different approach from what has been done so far.	-0.042	0.141	0.030	0.445	-0.067	4.994	0.675	0.355
re forms of research reports are easy to access and/or find in online 0.273 0.098 0.129 0.101 -0.675 4.753 re forms of research reports are difficult to obtain. or of research reports are difficult to obtain and are difficult to obtain a state of the research and are difficult to obtain a state of the research and are difficult to obtain a state of the research and are diff	10. There are many alternatives that can be done to solve problems in the classroom.	0.027	0.165	0.131	0.376	-0.178	5.307	0.547	0.339
r forms of research reports are difficult to obtain. 2. Forms of research reports are difficult to obtain. 2. Forms of research reports require expensive fees to get them. 3. 377 3. 377 3. 0.036 3. 0.036 3. 0.036 3. 0.037 3. 0.037 3. 0.037 3. 0.037 3. 0.037 4. 0.09 4. 0.09 4. 0.010 6. 0.041 6. 0.428 9. 3. 301 4. 1.25 1. 2. 11 5. 6. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3.	 Articles or other forms of research reports are easy to access and/or find in online media. 	0.273	0.098	0.129	0.101	-0.675	4.753	0.911	0.252
g about educational research reports require expensive fees to get them. 0.337	11. Articles or other forms of research reports are difficult to obtain.	0.181	960'0	-0.009	-0.186	0.648	3.477	1.217	0.458
g about educational research with experts/researchers/lecturer is 0.073 0.235 0.036 –0.178 –0.410 4.125 are a problem in obtaining literature. 0.285 0.034 0.112 0.027 0.346 4.009 1.2.912 11.756 4.807 3.927 3.797 6.327 5.760 2.355 1.924 1.860 0.864 0.833 0.683 0.703 0.561	14. Articles or other forms of research reports require expensive fees to get them.	0.337	-0.040	0.010	0.041	0.428	3.301	1.130	0.412
are a problem in obtaining literature. 0.285 0.034 0.112 0.027 0.346 4.009 12.912 11.756 4.807 3.927 3.797 6.327 5.760 2.355 1.924 1.860 0.864 0.833 0.683 0.703 0.561	15. Communicating about educational research with experts/researchers/lecturer is	0.073	0.235	0.036	-0.178	-0.410	4.125	1.068	0.178
12.912 0.034 0.112 0.027 0.340 4.009 0.283 0.797 0.340 0.864 0.833 0.683 0.703 0.561	easy.	1000	7000	0	2000	970	4000	5	0 242
6.327 11.756 4.807 3.927 6.327 5.760 2.355 1.924 0.864 0.833 0.683 0.703	17. Limited runds are a problem in obtaining literature.	0.285	0.034	0.112	0.027	0.340	4,009	1.101	0.313
6.327 5.760 2.355 1.924 0.864 0.833 0.683 0.703	Explained variance	12.912	11.756	4.807	3.927	3.797			
0.864 0.833 0.683 0.703	Eigenvalues	6.327	5.760	2.355	1.924	1.860			
	Cronbach's Alpha	0.864	0.833	0.683	0.703	0.561			

Table 2Mean, deviation standard, range, and correlation analyses.

Factors	N	Mean	SD	Range	1	2	3	4	5
1. Negative Views	16	3.964	0.437	2.923-4.489	1.000	-0.042	0.152	-0.048	0.220
2. Positive Views	13	5.051	0.070	4.943-5.139	-0.042	1.000	0.309	0.353	-0.003
3. Knowledge about research	8	4.798	0.205	4.460-5.034	0.152	0.309	1.000	0.117	0.088
4. Open-mindedness	7	5.175	0.205	4.903-5.531	-0.048	0.353	0.117	1.000	0.003
5. Accessibility	5	3.182	0.662	2.247-4.009	0.220	-0.003	0.088	0.003	1.000

2. Experimental Design, Materials and Methods

The data were obtained from participants through a cross-sectional survey. The participants were registered in the faculty of teacher training and education in one of the private universities with an A (Excellent) accreditation in Jakarta, Indonesia. Samples were collected using a convenience sampling method from all students who were officially registered as students of the 8th semester or above, and they were taking undergraduate thesis research data. Three hundred fifty-two participants voluntarily filled out the questionnaire that was distributed online and offline. Their ages ranged between 20 and 24 years old, and 82.4% were males. 52.8% of the participants indicated that they had teaching experiences, while the rest had no teaching experiences. A questionnaire collected the data on teachers' beliefs about research developed by the researchers. Studies on teacher perception about research [1-3] were used to develop the questionnaire items. The questionnaire was written in Bahasa Indonesia, and then was validated by three educational experts as well as researchers. The questionnaire draft consisted of 72 items with a 6-point scale ranging from 1 (strongly disagree) to 6 (strongly agree). After the questionnaire was validated by the three experts in educational area, the eight items (i.e. 8, 16, 23, 45, 46, 50, 5 and 55) were revised according to their suggestions. Exploratory factor analysis on 72 items was performed to ger 10 te the best-fit factor structure and to reveal the best indicators for measuring each factor. Cronbach's alpha coefficient was computed to check the internal consistency of each factor. The analyses were done using SPSS version 24.

Ethics Statement

This manuscript has not been published elsewhere or it is not under consideration for publication for other journals. The study was conducted by following Universitas Muhammadiyah Prof. Dr. HAMKA's ethical standards. Informed consent was obtained from the participants prior to the survey.

3 Declaration of Competing Interest

The authors declare that they have no known competing financial interests or personal relationships which have, or could be perceived to have, influenced the work reported in this article.

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Supplementary Materials

Supplementary material associated with this article can be found in the online version at doi:10.1016/j.dib.2020.106578.

6

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2. The data on exploratory factor structure of [pre-service] teacher beliefs about educational research scale

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