

## Exploring Collaborative Professionalism as a Means of Virtually Supporting Rural Teachers: Supplemental Materials

**Martha Inouye**  
**Ana K. Houseal**  
**Clare Gunshenan**  
**Angus McReynolds**  
**Mark Perkins**

Table 1

*Descriptive statistics of all measures for the participants given variable (category code) and time iteration (five sessions)*

	n	mean	sd	min	max	se
CommunityBuilding1	2	25.00	29.70	4.00	46.00	21.00
CommunityBuilding2	2	10.00	14.14	0.00	20.00	10.00
CommunityBuilding3	2	87.00	83.44	28.00	146.00	59.00
CommunityBuilding4	2	6.00	0.00	6.00	6.00	0.00
CommunityBuilding5	2	28.00	11.31	20.00	36.00	8.00
Management1	2	197.42	153.32	89.00	305.83	108.42
Management2	2	207.00	145.66	104.00	310.00	103.00
Management3	2	239.88	64.05	194.58	285.17	45.29
Management4	2	151.42	90.39	87.50	215.33	63.92
Management5	2	227.79	12.20	219.17	236.42	8.63
PoseQuestions1	2	287.00	100.88	215.67	358.33	71.33
PoseQuestions2	2	275.76	38.76	248.35	303.17	27.41
PoseQuestions3	2	143.17	78.72	87.50	198.83	55.67
PoseQuestions4	2	104.67	7.54	99.33	110.00	5.33
PoseQuestions5	2	128.58	9.78	121.67	135.50	6.92
ConsiderIdeas1	1	178.50	NA	178.50	178.50	NA
ConsiderIdeas2	2	291.34	208.84	143.67	439.02	147.68
ConsiderIdeas3	2	120.29	108.48	43.58	197.00	76.71
ConsiderIdeas4	2	182.33	215.43	30.00	334.67	152.33
ConsiderIdeas5	2	75.96	26.81	57.00	94.92	18.96
Encapsulate1	2	277.42	218.14	123.17	431.67	154.25
Encapsulate2	2	204.80	111.44	126.00	283.60	78.80
Encapsulate3	2	80.08	22.98	63.83	96.33	16.25
Encapsulate4	2	164.33	122.80	77.50	251.17	86.83
Encapsulate5	2	107.23	0.67	106.75	107.70	0.48
ConnectOther'sIdeas1	2	90.42	15.91	79.17	101.67	11.25
ConnectOther'sIdeas2	2	341.6	0.61	341.17	342.03	0.433
ConnectOther'sIdeas3	2	50.58	26.99	31.5	69.67	19.08
ConnectOther'sIdeas4	2	70.25	56.92	30	110.5	40.25
ConnectOther'sIdeas5	2	133.54	48.02	99.58	167.5	33.96

Table 2

*Descriptive statistics of all measures for the facilitators given variable (category code) and time iteration (five sessions)*

	n	mean	sd	min	max	se
CommunityBuilding1	7	46.29	35.73	0.00	94.00	13.50
CommunityBuilding2	9	23.83	36.21	0.00	103.00	12.07
CommunityBuilding3	5	103.20	149.29	3.00	363.00	66.76
CommunityBuilding4	6	38.92	52.94	0.00	144.00	21.61
CommunityBuilding5	5	47.07	19.12	14.00	61.00	8.55
Management1	7	10.29	27.21	0.00	72.00	10.29
Management2	9	14.85	44.56	0.00	133.67	14.85
Management3	4	14.75	10.57	8.00	30.50	5.29
Management4	6	27.83	27.67	0.00	62.50	11.30
Management5	5	21.30	25.67	0.00	66.00	11.48
ConsiderIdeas1	7	27.14	33.20	0.00	95.00	12.55
ConsiderIdeas2	9	38.85	71.57	0.00	224.67	23.86
ConsiderIdeas3	5	29.80	40.33	0.00	90.00	18.03
ConsiderIdeas4	6	15.47	29.62	0.00	75.50	12.09
ConsiderIdeas5	5	36.80	55.59	0.00	130.00	24.86
ShareIdeas1	7	175.93	98.60	58.00	340.00	37.27
ShareIdeas2	9	317.26	323.31	36.00	1065.67	107.77
ShareIdeas3	5	153.90	119.35	40.00	306.00	53.37
ShareIdeas4	6	214.36	212.15	0.00	514.50	86.61
ShareIdeas5	5	410.30	313.44	150.00	901.67	140.18
Encapsulate1	7	19.29	25.57	0.00	60.00	9.66
Encapsulate 2	9	37.87	47.02	0.00	110.50	15.67
Encapsulate 3	5	49.50	37.23	5.00	105.00	16.65
Encapsulate 4	6	49.17	52.60	0.00	143.50	21.48
Encapsulate 5	5	31.10	34.46	0.00	84.50	15.41
ConnectOther'sIdeas1	7	44.5	43.55	0	97	16.46
ConnectOther'sIdeas2	9	72.89	66.45	0	193	22.15
ConnectOther'sIdeas3	5	59.8	34.56	18.5	98	15.45
ConnectOther'sIdeas4	5	99.9	102.54	9	263	45.86
ConnectOther'sIdeas5	5	62.43	59.88	16	155.83	26.78

Table 3

*Repeated measures ANOVA table effects for participant group by category code*

	SOS	df	MS	F	p
Community Time					
(Intercept)	14996.57	1	14996.57	3.30	.080
Community Time	21006.40	4	5251.60	1.15	.352
Error	122774.53	27	4547.20		
Management Time					
(Intercept)	740.57	1	740.57	0.71	.407
Management Time	1169.95	4	292.49	0.28	.888
Error	27124.39	26	1043.25		
Consider Ideas Time					
(Intercept)	5157.14	1	5157.14	1.97	.172
Consider Ideas Time	2259.13	4	564.78	0.22	.928
Error	70849.73	27	2624.06		
Share Ideas Time					
(Intercept)	216656.04	1	216656.04	3.73	.064
Share Ideas Time	260221.46	4	65055.36	1.12	.368
Error	1569564.63	27	58132.02		
Encapsulate Time					
(Intercept)	2603.57	1	2603.57	1.54	.226
Encapsulate Time	4043.63	4	1010.91	0.60	.668
Error	45734.34	27	1693.86		
Connect Other's Ideas Time					
(Intercept)	13861.75	1	13861.75	3.34	.079
Connect Other's Ideas Time	9631.34	4	2407.84	0.58	.680
Error	107875.81	26	4149.07		

Table 4

*Descriptive statistics of all measures for the participants given variable (sub-code) and time iteration (five sessions)*

	n	mean	sd	min	max	se
Affirmation1	7	4.57	4.86	0.00	12.00	1.84
Affirmation2	8	14.00	12.32	0.00	32.00	4.35
Affirmation3	5	9.40	7.02	1.00	18.00	3.14
Affirmation4	6	21.33	15.62	0.00	42.00	6.38
Affirmation5	5	26.60	16.27	8.00	48.00	7.28
ClarifyInformation1	7	20.57	24.64	0.00	60.00	9.31
ClarifyInformation2	8	28.21	39.14	0.00	110.50	13.84
ClarifyInformation3	5	15.20	21.67	0.00	48.00	9.69
ClarifyInformation4	6	48.67	52.55	0.00	143.50	21.45
ClarifyInformation5	5	23.70	21.75	0.00	47.50	9.73
ClarifyQuestion1	7	20.93	31.53	0.00	90.00	11.92
ClarifyQuestion2	8	12.94	15.81	0.00	46.00	5.59
ClarifyQuestion3	5	9.20	18.42	0.00	42.00	8.24
ClarifyQuestion4	6	10.81	18.32	0.00	47.50	7.48
ClarifyQuestion5	5	14.20	19.19	0.00	44.00	8.58
CommunityBuilding1	7	46.29	35.73	0.00	94.00	13.50
CommunityBuilding2	9	23.83	36.21	0.00	103.00	12.07
CommunityBuilding3	5	103.20	149.29	3.00	363.00	66.76
CommunityBuilding4	6	38.92	52.94	0.00	144.00	21.61
CommunityBuilding5	5	47.07	19.12	14.00	61.00	8.55
ConnectMultipleParticipantIdeas1	7	0.00	0.00	0.00	0.00	0.00
ConnectMultipleParticipantIdeas2	8	0.00	0.00	0.00	0.00	0.00
ConnectMultipleParticipantIdeas3	5	0.40	0.89	0.00	2.00	0.40
ConnectMultipleParticipantIdeas4	6	0.00	0.00	0.00	0.00	0.00
ConnectMultipleParticipantIdeas5	5	0.00	0.00	0.00	0.00	0.00
EncourageArticulation1	7	4.93	8.27	0.00	22.50	3.13
EncourageArticulation2	8	27.26	65.90	0.00	189.58	23.30
EncourageArticulation3	5	20.60	25.59	0.00	49.00	11.44
EncourageArticulation4	6	4.67	11.43	0.00	28.00	4.67
EncourageArticulation5	5	22.60	47.20	0.00	107.00	21.11
FosterReflection1	7	0.00	0.00	0.00	0.00	0.00
FosterReflection2	8	3.51	9.93	0.00	28.08	3.51
FosterReflection3	5	0.00	0.00	0.00	0.00	0.00
FosterReflection4	6	0.00	0.00	0.00	0.00	0.00
FosterReflection5	5	0.00	0.00	0.00	0.00	0.00
GeneralAdvice1	7	25.14	29.60	0.00	59.00	11.19
GeneralAdvice2	8	53.23	68.63	0.00	189.00	24.26
GeneralAdvice3	5	23.00	39.52	0.00	93.00	17.67
GeneralAdvice4	6	18.25	33.85	0.00	85.50	13.82
GeneralAdvice5	5	17.63	39.43	0.00	88.17	17.63
Management1	7	10.29	27.21	0.00	72.00	10.29

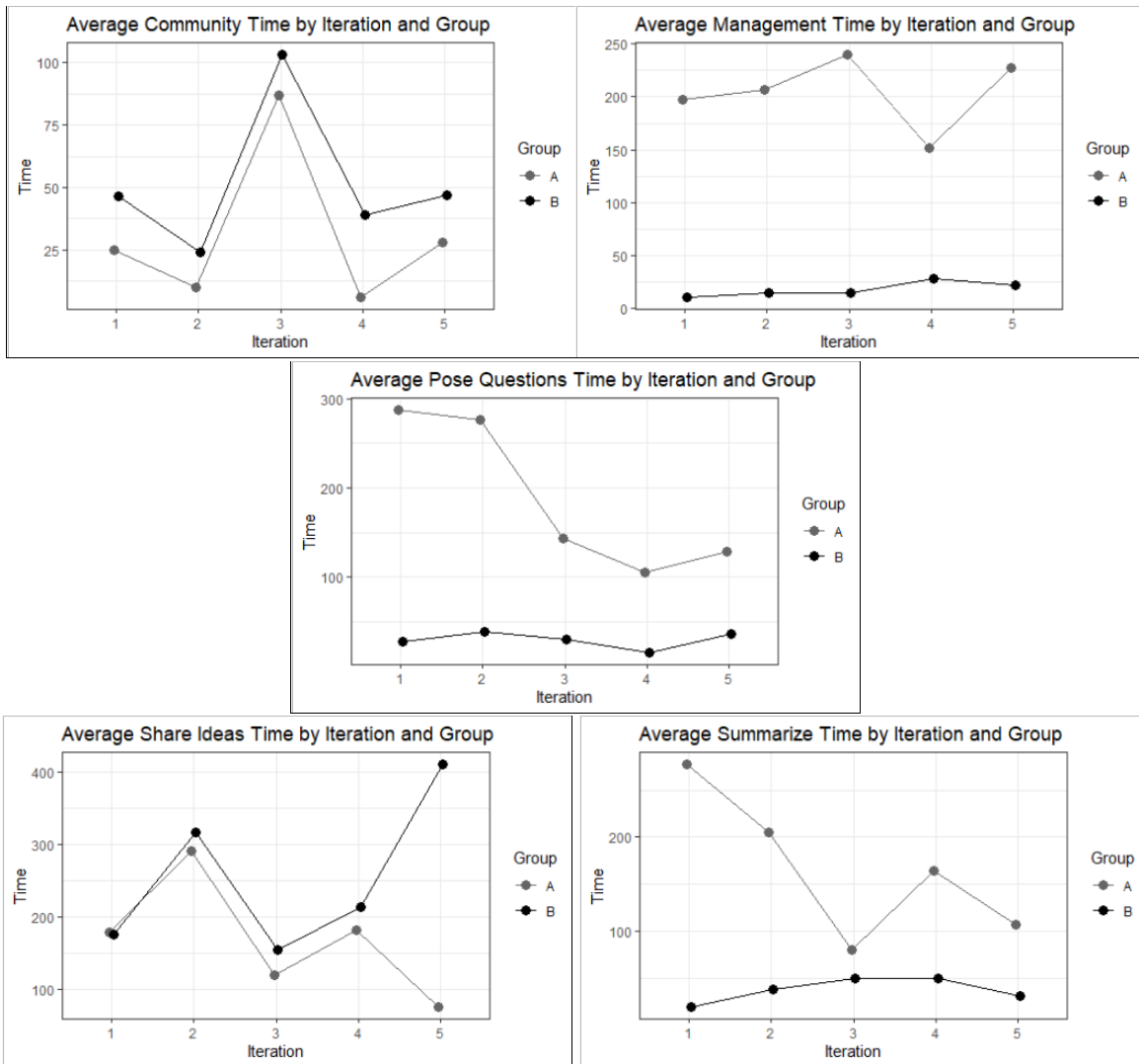
Management2	8	16.71	47.26	0.00	133.67	16.71
Management3	5	11.80	11.28	0.00	30.50	5.05
Management4	6	27.83	27.67	0.00	62.50	11.30
Management5	5	21.30	25.67	0.00	66.00	11.48
PoseIdeaForDiscussion1	7	26.29	30.69	0.00	91.00	11.60
PoseIdeaForDiscussion2	9	50.82	84.31	0.00	225.58	28.10
PoseIdeaForDiscussion3	5	14.90	11.77	0.00	30.50	5.26
PoseIdeaForDiscussion4	6	28.47	55.55	0.00	140.50	22.68
PoseIdeaForDiscussion5	6	102.53	95.45	0.00	253.67	38.97
ReferenceParticipantExample1	7	14.79	18.95	0.00	43.00	7.16
ReferenceParticipantExample2	8	14.77	19.45	0.00	56.67	6.88
ReferenceParticipantExample3	5	27.40	32.75	0.00	78.00	14.65
ReferenceParticipantExample4	6	43.67	87.20	0.00	218.00	35.60
ReferenceParticipantExample5	5	18.20	21.01	0.00	51.33	9.40
ShareIdeasExperiences1	7	149.64	88.37	39.00	249.00	33.40
ShareIdeasExperiences2	9	266.44	273.14	28.00	901.83	91.05
ShareIdeasExperiences3	5	139.00	129.39	9.50	306.00	57.86
ShareIdeasExperiences4	6	185.89	204.63	0.00	492.50	83.54
ShareIdeasExperiences5	5	287.27	224.24	120.00	648.00	100.28
Summarize1	7	0.00	0.00	0.00	0.00	0.00
Summarize2	8	13.46	26.29	0.00	69.50	9.29
Summarize3	5	28.70	43.35	0.00	105.00	19.39
Summarize4	6	0.50	1.22	0.00	3.00	0.50
Summarize5	5	0.00	0.00	0.00	0.00	0.00
Synthesize1	7	0.00	0.00	0.00	0.00	0.00
Synthesize2	8	0.94	2.65	0.00	7.50	0.94
Synthesize3	5	5.20	7.12	0.00	13.00	3.18
Synthesize4	6	0.00	0.00	0.00	0.00	0.00
Synthesize5	5	7.40	16.55	0.00	37.00	7.40

Table 5

*Descriptive statistics of all measures for the facilitators given variable (sub-code) and time iteration (five sessions)*

	n	mean	sd	min	max	se
Affirmation1	2	5.00	7.07	0.00	10.00	5.00
Affirmation2	2	46.75	22.27	31.00	62.50	15.75
Affirmation3	2	7.50	3.54	5.00	10.00	2.50
Affirmation4	2	22.00	15.56	11.00	33.00	11.00
Affirmation5	2	33.63	17.85	21.00	46.25	12.63
ClarifyInformation1	2	96.50	38.89	69.00	124.00	27.50
ClarifyInformation2	2	52.25	27.93	32.50	72.00	19.75
ClarifyInformation3	2	27.00	38.18	0.00	54.00	27.00
ClarifyInformation4	2	112.83	49.97	77.50	148.17	35.33
ClarifyInformation5	2	40.00	20.51	25.50	54.50	14.50
ClarifyQuestion1	2	6.00	8.49	0.00	12.00	6.00
ClarifyQuestion2	2	9.50	13.44	0.00	19.00	9.50
ClarifyQuestion3	2	13.25	10.96	5.50	21.00	7.75
ClarifyQuestion4	2	30.50	30.41	9.00	52.00	21.50
ClarifyQuestion5	2	8.50	12.02	0.00	17.00	8.50
CommunityBuilding1	2	25.00	29.70	4.00	46.00	21.00
CommunityBuilding2	2	10.00	14.14	0.00	20.00	10.00
CommunityBuilding3	2	87.00	83.44	28.00	146.00	59.00
CommunityBuilding4	2	6.00	0.00	6.00	6.00	0.00
CommunityBuilding5	2	28.00	11.31	20.00	36.00	8.00
ConnectMultipleParticipantIdeas1	2	17.58	4.12	14.67	20.50	2.92
ConnectMultipleParticipantIdeas2	2	32.50	45.96	0.00	65.00	32.50
ConnectMultipleParticipantIdeas3	2	21.17	29.93	0.00	42.33	21.17
ConnectMultipleParticipantIdeas4	2	0.00	0.00	0.00	0.00	0.00
ConnectMultipleParticipantIdeas5	2	0.00	0.00	0.00	0.00	0.00
EncourageArticulation1	2	121.50	95.93	53.67	189.33	67.83
EncourageArticulation2	2	168.38	84.32	108.75	228.00	59.63
EncourageArticulation3	2	70.21	31.05	48.25	92.17	21.96
EncourageArticulation4	2	62.42	41.13	33.33	91.50	29.08
EncourageArticulation5	2	78.13	37.54	51.58	104.67	26.54
FosterReflection1	2	159.50	3.54	157.00	162.00	2.50
FosterReflection2	2	97.88	32.13	75.17	120.60	22.72
FosterReflection3	2	59.71	58.63	18.25	101.17	41.46
FosterReflection4	2	11.75	3.18	9.50	14.00	2.25
FosterReflection5	2	41.96	59.34	0.00	83.92	41.96
GeneralAdvice1	2	43.50	26.87	24.50	62.50	19.00
GeneralAdvice2	2	109.93	33.36	86.33	133.52	23.59
GeneralAdvice3	2	26.75	18.03	14.00	39.50	12.75
GeneralAdvice4	2	23.50	33.23	0.00	47.00	23.50
GeneralAdvice5	2	58.63	27.75	39.00	78.25	19.63
Management1	2	197.42	153.32	89.00	305.83	108.42

Management2	2	207.00	145.66	104.00	310.00	103.00
Management3	2	239.88	64.05	194.58	285.17	45.29
Management4	2	151.42	90.39	87.50	215.33	63.92
Management5	2	227.79	12.20	219.17	236.42	8.63
PoseIdeaForDiscussion1	2	5.00	7.07	0.00	10.00	5.00
PoseIdeaForDiscussion2	2	98.72	26.94	79.67	117.77	19.05
PoseIdeaForDiscussion3	2	120.29	108.48	43.58	197.00	76.71
PoseIdeaForDiscussion4	2	90.00	118.79	6.00	174.00	84.00
PoseIdeaForDiscussion5	2	51.96	4.18	49.00	54.92	2.96
ReferenceParticipantExample1	2	24.33	22.16	8.67	40.00	15.67
ReferenceParticipantExample2	2	152.43	35.48	127.33	177.52	25.09
ReferenceParticipantExample3	2	16.33	12.49	7.50	25.17	8.83
ReferenceParticipantExample4	2	24.75	8.13	19.00	30.50	5.75
ReferenceParticipantExample5	2	41.29	38.12	14.33	68.25	26.96
ShareIdeasExperiences1	2	84.25	119.15	0.00	168.50	84.25
ShareIdeasExperiences2	2	192.63	181.90	64.00	321.25	128.63
ShareIdeasExperiences3	2	0.00	0.00	0.00	0.00	0.00
ShareIdeasExperiences4	2	92.33	96.64	24.00	160.67	68.33
ShareIdeasExperiences5	2	24.00	22.63	8.00	40.00	16.00
Summarize1	2	142.58	125.04	54.17	231.00	88.42
Summarize2	2	43.00	21.21	28.00	58.00	15.00
Summarize3	2	15.75	22.27	0.00	31.50	15.75
Summarize4	2	29.67	41.96	0.00	59.33	29.67
Summarize5	2	15.00	15.56	4.00	26.00	11.00
Synthesize1	2	38.33	54.21	0.00	76.67	38.33
Synthesize2	2	109.55	118.16	26.00	193.10	83.55
Synthesize3	2	16.17	22.86	0.00	32.33	16.17
Synthesize4	2	21.83	30.88	0.00	43.67	21.83
Synthesize5	2	52.23	36.73	26.25	78.20	25.98

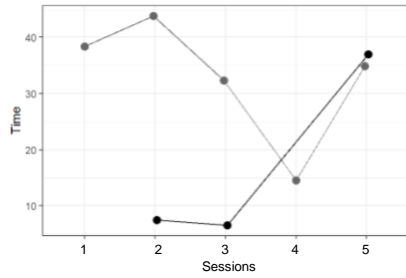


Note: Group A = facilitators; Group B = participants; Iteration = Session

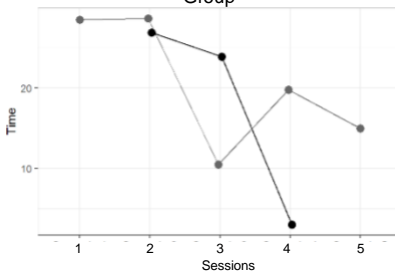
Figure 1. Means Plots of category codes: Community, Management, Pose Questions, Share Ideas, and Summarize by Sequence and Group



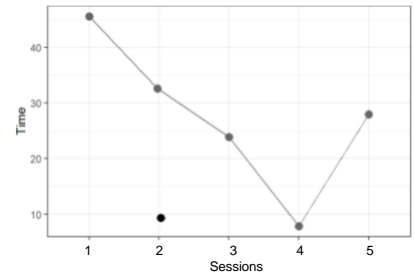
Average Synthesizing Time by Session and Group



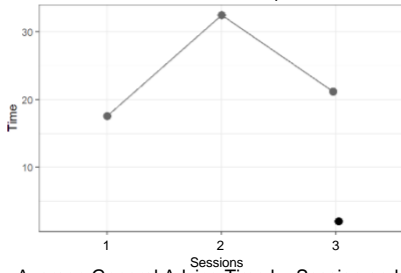
Average Summarizing Time by Session and Group



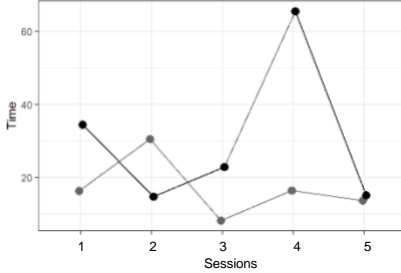
Average Reflection Time by Session and Group



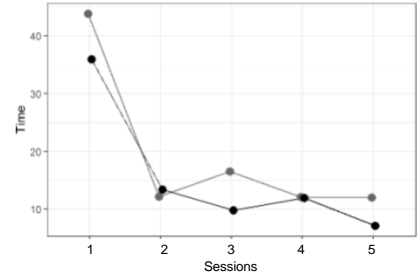
Average Connecting Multiple Ideas Time by Session and Group



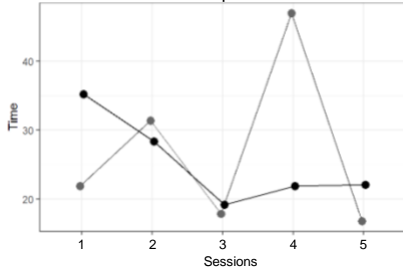
Average Referencing Others' Ideas Time by Session and Group



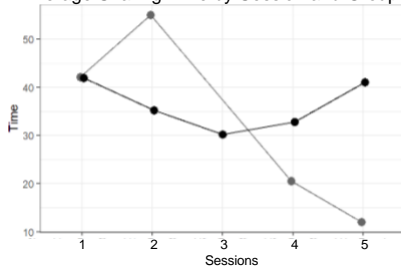
Average Management Time by Session and Group



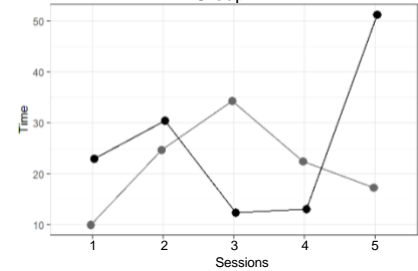
Average General Advice Time by Session and Group



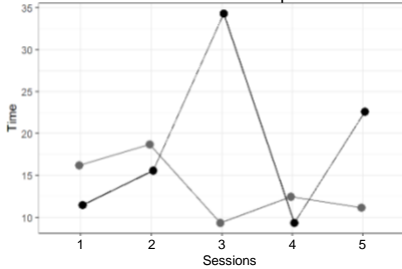
Average Sharing Time by Session and Group



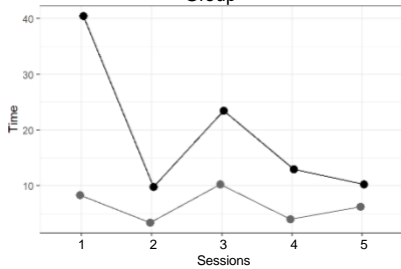
Average Posing Ideas Time by Session and Group



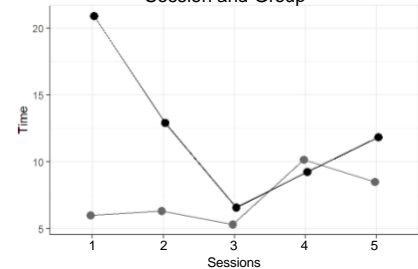
Average Encouraging Articulation Time by Session and Group



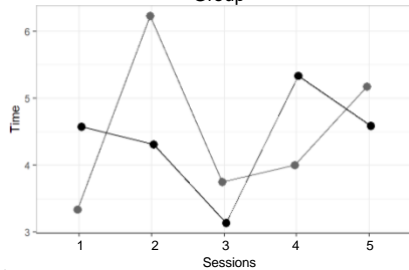
Average Community Time by Session and Group



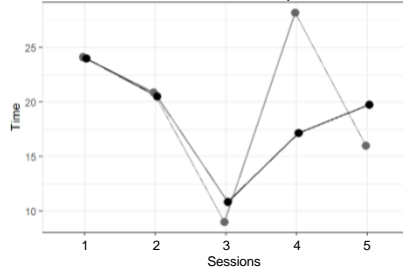
Average Clarifying Questions Time by Session and Group



Average Affirmation Time by Session and Group



Average Clarifying Information Time by Session and Group



Note: Black = facilitators; Grey = participants

Figure 2. Means plots of category codes: Community, Management, Pose Questions, Share Ideas, and Summarize by Sequence and Group