

### ***EVENT 401 FINAL OF EVENT 301 Womens Open 100m Freestyle***

Full Results

Place	Name	AaD	Club	Time	R.T.	FINA Pt	50
1.	Hannah Featherstone	17	Sedgefield	56.27	+ 0.72	740	27.21
2.	Jane Brown	16	Newcastle	57.15	+ 0.77	706	27.69
3.	Freya Rayner	18	Co Sund'land	57.72	+ 0.70	686	27.57
4.	Katie Laybourn	15	Hartlepool JG	57.74	+ 0.72	685	27.68
5.	Sophie Hobbah	15	Co Leeds JS	58.50	+ 0.79	659	28.53
6.	Laura Brookes	15	Donc Dartes JB	58.79	+ 0.73	649	28.53
6.	Devin Leask	17	Bo Kirklees	58.79	+ 0.67	649	28.47
8.	Sophie Brandon	15	Newcastle	58.98	+ 0.67	643	28.28
9.	Annalea Davison	15	Newcastle	1:00.29	+ 0.65	602	28.78
10.	Aleah Ross	15	KingstonHull	1:02.22	+ 0.80	547	29.20

### ***EVENT 402 FINAL OF EVENT 302 Mens Open 200m Freestyle***

Full Results

Place	Name	AaD	Club	Time	R.T.	FINA Pt	50	100	150
1.	Kyle Chisholm	19	Bo Kirklees	1:49.47	+ 0.61	747	25.84	53.82	1:21.49
2.	Thomas Howley	20	Newcastle	1:50.90	+ 0.69	719	26.13	54.40	1:22.87
3.	Thomas Flower	17	RichmondDale	1:52.17	+ 0.64	695	26.10	54.36	1:23.22
4.	Myles Stirr	16	Co Leeds	1:52.91	+ 0.62	681	26.07	54.44	1:23.93
5.	Alasdair Wright	19	Tynedale	1:55.24	+ 0.74	641	26.23	55.49	1:25.37
6.	Christopher Heppell	17	Chester Le S	1:56.68	+ 0.69	617	27.41	57.45	1:27.14
7.	Kieran Peart	19	Gates &Whick	1:57.30	+ 0.65	607	27.20	56.61	1:28.07
8.	Daniel Morley	15	Derwentside JG	1:57.59	+ 0.58	603	27.17	56.92	1:27.50
9.	Henry Willis	16	Newcastle	1:58.09	+ 0.68	595	27.80	57.52	1:27.91
10.	Adam Wilson	15	Newcastle JS	2:01.71	+ 0.67	544	27.86	58.35	1:29.99

### ***EVENT 403 FINAL OF EVENT 303 Womens Open 50m Breaststroke***

Full Results

Place	Name	AaD	Club	Time	R.T.	FINA Pt
1.	Rachel Taylor	16	Co Sund'land	33.28	+ 0.71	648
2.	Layla Black	16	Co Leeds	33.37	+ 0.64	642
3.	Shauna Johnson	16	Newcastle	33.51	+ 0.80	634
4.	Danielle Gilbert	18	Derwentside	33.62	+ 0.67	628
5.	Jane Brown	16	Newcastle	33.82	+ 0.70	617
6.	Maia Hall	14	Loftus Dol JG	34.23	+ 0.69	595
7.	Avril Bowler	15	Bo Kirklees JS	34.38	+ 0.62	587
8.	Caitlin Chadwick	15	Tynemouth JG	34.45	+ 0.82	584
9.	Jessica Gillatt	19	South Axholm	34.52	+ 0.72	580
10.	Charlotte Gibbs	14	Co Bradford	35.22	+ 0.59	546

### ***EVENT 404 FINAL OF EVENT 304 Mens Open 100m Breaststroke***

Full Results

Place	Name	AaD	Club	Time	R.T.	FINA Pt	50
1.	Joel O'Halleron	20	Derwentside	1:03.94	+ 0.81	657	30.28
2.	Harry Devlin	16	York City	1:03.95	+ 0.63	657	30.22
3.	Thomas Speed	17	Co Sund'land	1:05.08	+ 0.69	623	30.80
4.	Sean Armstrong	16	Loftus Dol	1:07.70	+ 0.67	554	31.72
5.	Richard Mawson	17	Co Leeds	1:08.88	+ 0.66	526	32.61
6.	Jake Lambert	15	Co Leeds JG	1:09.04	+ 0.72	522	32.90
7.	Matthew Greidanus	16	Halifax	1:09.20	+ 0.63	518	32.10
8.	Samuel Chell	16	Billingham	1:10.17	+ 0.79	497	33.09
9.	James Lund	17	Co Bradford	1:10.69	+ 0.72	486	33.84
10.	Liam Bollands	17	Middlesboro	1:11.52	+ 0.66	470	32.09

***EVENT 405 FINAL OF EVENT 305 Womens Open 400m IM***

Full Results

Place	Name	AaD	Club	Time	R.T.	FINA Pt	50m	100m	150m	200m	250m	300m	350m	400m
1.	Niamh McDonagh	17	Bo Stockton	4:47.60	+ 0.76	734	31.04	1:06.32	1:42.59	2:18.82	3:00.35	3:40.78	4:14.51	4:47.60
							31.04	35.28	36.27	36.23	41.53	40.43	33.73	33.09
2.	Keelan Fitton	16	Bo Kirklees	4:51.35	+ 0.53	706	31.57	1:07.78	1:45.35	2:22.20	3:02.77	3:44.19	4:18.39	4:51.35
							31.57	36.21	37.57	36.85	40.57	41.42	34.20	32.96
3.	Danielle Gilbert	18	Derwentside	4:57.89	+ 0.74	660	31.68	1:08.34	1:48.32	2:26.44	3:07.92	3:50.43	4:25.23	4:57.89
							31.68	36.66	39.98	38.12	41.48	42.51	34.80	32.66
4.	Tilly Arrand	15	Donc Dartes JG	4:58.91	+ 0.73	654	33.40	1:09.28	1:47.42	2:24.19	3:08.15	3:52.39	4:26.15	4:58.91
							33.40	35.88	38.14	36.77	43.96	44.24	33.76	32.76
5.	Laura Cook	14	Newcastle JS	4:59.56	+ 0.74	649	32.72	1:11.24	1:48.70	2:25.41	3:08.27	3:52.98	4:26.92	4:59.56
							32.72	38.52	37.46	36.71	42.86	44.71	33.94	32.64
6.	Rebecca Clynes	14	Co Leeds JB	5:00.25	+ 0.77	645	33.55	1:11.35	1:49.82	2:27.76	3:09.91	3:52.07	4:26.84	5:00.25
							33.55	37.80	38.47	37.94	42.15	42.16	34.77	33.41
7.	Amy Corcoran	14	KingstonHull	5:04.59	+ 0.61	618	32.41	1:10.54	1:50.41	2:29.29	3:11.77	3:54.91	4:30.22	5:04.59
							32.41	38.13	39.87	38.88	42.48	43.14	35.31	34.37
8.	Abigail Shuttleworth	17	Co Bradford	5:04.60	+ 0.85	618	32.84	1:09.08	1:48.29	2:27.03	3:11.60	3:56.16	4:30.20	5:04.60
							32.84	36.24	39.21	38.74	44.57	44.56	34.04	34.40
9.	Lucy Nicholson	16	York City	5:07.97	---	597	32.49	1:09.18	1:47.87	2:26.05	3:12.28	3:58.89	4:33.92	5:07.97
							32.49	36.69	38.69	38.18	46.23	46.61	35.03	34.05
10.	Viktoria Gnant	15	Co Leeds	5:08.12	+ 0.64	597	32.57	1:10.26	1:49.61	2:28.24	3:12.48	3:56.52	4:32.78	5:08.12
							32.57	37.69	39.35	38.63	44.24	44.04	36.26	35.34

***EVENT 406 FINAL OF EVENT 306 Mens Open 100m Butterfly***

Full Results

Place	Name	AaD	Club	Time	R.T.	FINA Pt	50
1.	Adam Taylor	20	Co Sund'land	54.22	+ 0.71	713	25.03
2.	Kyle Chisholm	19	Bo Kirklees	55.12	+ 0.60	678	26.13
3.	Joshua Reasbeck	17	Donc Dartes	57.05	+ 0.68	612	27.09
4.	Daniel Andrews	19	Middlesboro	58.25	+ 0.64	575	27.16
5.	Robert Burton	18	Sheffield C	58.48	+ 0.63	568	27.40
6.	Joel O'Halleron	20	Derwentside	58.62	+ 0.76	564	27.82
7.	James Keyworth	17	Chester Le S	59.10	+ 0.62	550	27.96
8.	Will Morris	14	Tynemouth JG	59.40	+ 0.66	542	27.37
9.	George Barber	15	Grimsby AST JS	59.47	+ 0.70	540	27.77
	Thomas Carswell	16	Tadcaster	DNC			

***EVENT 407 FINAL OF EVENT 307 Womens Open 100m Backstroke***

Full Results

Place	Name	AaD	Club	Time	R.T.	FINA Pt	50
1.	Hannah Featherstone	17	Sedgefield	1:02.08	+ 0.62	696	30.19
2.	Sophie Hobbah	15	Co Leeds JG	1:02.39	+ 0.73	686	30.54
3.	Kiani Campbell-Grady	17	Co Leeds	1:04.33	+ 0.67	625	31.23
4.	Hannah Slater	14	Newcastle JS	1:05.23	+ 0.72	600	31.36
5.	Hannah Seymour	15	Morpeth JB	1:05.53	+ 0.63	592	31.41
6.	Niamh Page	14	Newcastle	1:06.29	+ 0.67	572	32.23
7.	Anna Marley	15	Harrogate	1:06.38	---	569	32.31
8.	Sarah Brown	17	Newcastle	1:06.67	+ 0.64	562	32.25
9.	Katheryn Scott	17	Bo Kirklees	1:06.68	+ 0.66	562	32.52
10.	Amelia Clynes	17	Co Leeds	1:07.23	+ 0.68	548	32.19

***EVENT 408 FINAL OF EVENT 308 Mens Open 50m Backstroke***

Full Results

Place	Name	AaD	Club	Time	R.T.	FINA Pt
1.	Nicholas Pyle	16	Newcastle	25.63	+ 0.65	651
2.	Alasdair Wright	19	Tynedale	26.26	+ 0.66	605
3.	Adam Taylor	20	Co Sund'land	26.53	+ 0.59	587
4.	Alexander Mason	15	Chester Le S JG	26.85	+ 0.64	566
5.	Thomas Carswell	16	Tadcaster	27.62	+ 0.58	520
6.	Lucas Lowery	18	AJ Newcastle	27.78	+ 0.49	511
7.	Joseph Martin	16	Gates &Whick	28.09	+ 0.60	494
8.	Adam Wilson	15	Newcastle JS	28.17	+ 0.52	490
9.	Henry Hickson	16	Loftus Dol	28.30	+ 0.58	484
10.	George Wilde	17	Co Bradford	28.34	+ 0.59	481

### ***EVENT 409 FINAL OF EVENT 309 Womens Open 200m Butterfly***

Full Results

Place	Name	AaD	Club	Time	R.T.	FINA Pt	50	100	150
1.	Stephanie Blakeburn	22	Billingham	2:11.40	+ 0.76	754	29.73	1:03.13	1:37.09
2.	Ciara Schlosshan	15	Co Leeds JG	2:14.36	+ 0.66	705	30.00	1:04.11	1:38.99
3.	Lauren Hodgson	17	Newcastle	2:15.45	+ 0.71	688	30.02	1:04.31	1:39.91
4.	Amelia Clynes	17	Co Leeds	2:15.60	+ 0.69	686	31.19	1:06.19	1:41.03
5.	Debbie Cocking	15	Rotherham Mo JS	2:20.72	+ 0.65	614	31.00	1:06.55	1:43.13
6.	Niamh McDonagh	17	Bo Stockton	2:20.89	+ 0.76	611	31.74	1:07.80	1:44.43
7.	Leah Crisp	15	Co Leeds JB	2:21.49	--	604	32.02	1:08.06	1:44.93
8.	Laura Brookes	15	Donc Dartes	2:22.33	+ 0.60	593	31.29	1:07.07	1:44.49
9.	Viktoria Gnanndt	15	Co Leeds	2:25.05	+ 0.64	560	32.02	1:08.94	1:46.84
10.	Natasha Crow	18	Donc Dartes	2:25.25	+ 0.81	558	32.21	1:08.50	1:45.84

### ***EVENT 410 FINAL OF EVENT 310 Mens Open 200m IM***

Full Results

Place	Name	AaD	Club	Time	R.T.	FINA Pt	50	100	150
1.	Joel O'Halleron	20	Derwentside	2:05.75	+ 0.77	662	27.58	1:00.53	1:36.50
2.	Myles Stirk	16	Co Leeds	2:06.08	+ 0.67	657	27.87	59.62	1:37.02
3.	Daniel Morley	15	Derwentside JG	2:09.06	+ 0.63	612	28.11	1:00.38	1:39.48
4.	Jonathan Milner	15	Co Leeds JS	2:10.62	+ 0.68	591	27.80	1:02.45	1:39.38
5.	Thomas Flower	17	RichmondDale	2:10.87	+ 0.64	587	28.96	1:03.02	1:42.30
6.	Richard Mawson	17	Co Leeds	2:11.22	+ 0.65	583	28.31	1:03.47	1:40.80
7.	Euan Cowan	16	Co Leeds	2:11.33	+ 0.76	581	28.25	1:02.28	1:41.28
8.	Oliver O'Halleron	16	Derwentside	2:13.19	+ 0.71	557	28.63	1:02.01	1:41.36
9.	Liam Birrell	15	Co Leeds JB	2:14.40	+ 0.59	542	28.85	1:04.20	1:43.74
10.	Adam Wilson	15	Newcastle	2:18.28	+ 0.48	498	29.39	1:03.71	1:45.00

### ***EVENT 411 FINAL OF EVENT 311 Womens Open 400m Freestyle***

Full Results

Place	Name	AaD	Club	Time	R.T.	FINA Pt	50	100	150	200	250	300	350	400
1.	Annalea Davison	15	Newcastle JG	4:15.28	+ 0.81	775								
	50m 29.46	100m 1:00.92	150m 1:32.84	200m 2:05.32	250m 2:37.84	300m 3:10.49	350m 3:43.23	400m 4:15.28						
	29.46	31.46	31.92	32.48	32.52	32.65	32.74	32.05						
2.	Sian Martin	16	Newcastle	4:16.49	+ 0.76	764								
	50m 29.92	100m 1:01.97	150m 1:34.63	200m 2:07.34	250m 2:40.03	300m 3:12.87	350m 3:45.34	400m 4:16.49						
	29.92	32.05	32.66	32.71	32.69	32.84	32.47	31.15						
3.	Lucy Ellis	19	Co Sund'land	4:17.20	+ 0.63	758								
	50m 29.44	100m 1:01.11	150m 1:33.46	200m 2:06.18	250m 2:38.85	300m 3:11.93	350m 3:45.04	400m 4:17.20						
	29.44	31.67	32.35	32.72	32.67	33.08	33.11	32.16						
4.	Leah Crisp	15	Co Leeds JS	4:17.49	+ 0.69	755								
	50m 30.14	100m 1:01.98	150m 1:34.41	200m 2:07.25	250m 2:39.77	300m 3:12.47	350m 3:45.25	400m 4:17.49						
	30.14	31.84	32.43	32.84	32.52	32.70	32.78	32.24						
5.	Chantelle Waugh	15	Donc Dartes JB	4:28.05	+ 0.65	669								
	50m 30.89	100m 1:04.42	150m 1:38.20	200m 2:12.53	250m 2:47.10	300m 3:21.66	350m 3:55.41	400m 4:28.05						
	30.89	33.53	33.78	34.33	34.57	34.56	33.75	32.64						
6.	Lucy Clarke	15	Donc Dartes	4:29.37	+ 0.80	659								
	50m 31.41	100m 1:05.13	150m 1:39.17	200m 2:13.32	250m 2:47.38	300m 3:21.74	350m 3:56.17	400m 4:29.37						
	31.41	33.72	34.04	34.15	34.06	34.36	34.43	33.20						
7.	Rosie Hepworth	14	Bo Kirklees	4:29.65	--	657								
	50m 30.69	100m 1:03.94	150m 1:37.89	200m 2:12.15	250m 2:46.72	300m 3:21.44	350m 3:55.96	400m 4:29.65						
	30.69	33.25	33.95	34.26	34.57	34.72	34.52	33.69						
8.	Laura Cook	14	Newcastle	4:32.67	+ 0.74	636								
	50m 31.34	100m 1:05.68	150m 1:40.16	200m 2:14.39	250m 2:48.98	300m 3:23.66	350m 3:58.50	400m 4:32.67						
	31.34	34.34	34.48	34.23	34.59	34.68	34.84	34.17						
9.	Lucy Nicholson	16	York City	4:34.88	+ 0.76	621								
	50m 31.41	100m 1:05.48	150m 1:40.06	200m 2:14.99	250m 2:49.97	300m 3:25.41	350m 4:00.54	400m 4:34.88						
	31.41	34.07	34.58	34.93	34.98	35.44	35.13	34.34						
10.	Bethany Meer	17	Co Bradford	4:37.78	--	601								
	50m 31.87	100m 1:05.86	150m 1:40.78	200m 2:15.64	250m 2:51.14	300m 3:26.96	350m 4:02.90	400m 4:37.78						
	31.87	33.99	34.92	34.86	35.50	35.82	35.94	34.88						

### ***EVENT 412 FINAL OF EVENT 312 Mens Open 50m Freestyle***

Full Results

Place	Name	AaD	Club	Time	R.T.	FINA Pt
1.	Kyle Chisholm	19	Bo Kirklees	23.34	+ 0.61	654
2.	Alasdair Wright	19	Tynedale	23.72	+ 0.72	623
3.	Robert Burton	18	Sheffield C	23.88	+ 0.64	610
4.	Kieran Peart	19	Gates & Whick	23.99	+ 0.66	602
5.	Thomas Carswell	16	Tadcaster	24.18	+ 0.69	588
6.	Alexander Mason	15	Chester Le S JG	24.55	+ 0.64	562
7.	Nicholas Pyle	16	Newcastle	24.57	+ 0.70	560
8.	Samuel Chell	16	Billingham	24.81	+ 0.75	544
9.	Aaron Morton	17	Darlington	24.91	+ 0.68	538
10.	James Keyworth	17	Chester Le S	25.14	+ 0.64	523

### ***EVENT 413 FINAL OF EVENT 313 Womens Open 200m Breaststroke***

Full Results

Place	Name	AaD	Club	Time	R.T.	FINA Pt	50	100	150
1.	Rachel Taylor	16	Co Sund'land	2:30.87	+ 0.74	709	34.32	1:12.98	1:52.02
2.	Layla Black	16	Co Leeds	2:33.37	+ 0.65	675	34.85	1:14.09	1:53.84
3.	Keelan Fitton	16	Bo Kirklees	2:34.20	+ 0.69	664	35.19	1:14.74	1:54.34
4.	Danielle Gilbert	18	Derwentside	2:36.60	+ 0.70	634	35.43	1:15.36	1:55.99
5.	Abigail Jack	16	Co Leeds	2:37.75	+ 0.61	620	36.43	1:16.82	1:57.44
6.	Ciara Schlosshan	15	Co Leeds <b>JG</b>	2:37.89	+ 0.67	619	36.27	1:16.77	1:57.83
7.	Rebecca Clynes	14	Co Leeds <b>JS</b>	2:38.31	+ 0.74	614	37.03	1:18.44	1:58.17
8.	Shauna Johnson	16	Newcastle	2:39.81	+ 0.84	597	34.86	1:15.84	1:57.52
9.	Maia Hall	14	Loftus Dol	2:42.78	---	564	36.08	1:17.37	2:00.59
10.	Avril Bowler	15	Bo Kirklees <b>JB</b>	2:43.16	+ 0.66	561	35.99	1:17.89	2:00.34

### ***EVENT 414 FINAL OF EVENT 315 Womens Open 50m Butterfly***

Full Results

Place	Name	AaD	Club	Time	R.T.	FINA Pt
1.	Freya Rayner	18	Co Sund'land	27.86	+ 0.69	670
2.	Lauren Hodgson	17	Newcastle	28.10	+ 0.69	653
3.	Jane Brown	16	Newcastle	28.11	+ 0.69	652
4.	Stephanie Blakeburn	22	Billingham	28.43	+ 0.74	630
5.	Isabella Centeleghe	20	Newcastle	29.02	+ 0.70	592
6.	Sophie Murray	17	Derwentside	29.17	+ 0.69	583
7.	Katie Hirst	15	Co Sheffield <b>JG</b>	29.24	+ 0.63	579
8.	Devyn Leask	17	Bo Kirklees	29.36	+ 0.67	572
9.	Magdalena Cygan	17	Co Leeds	29.46	+ 0.75	566
	Lauren Hanson	17	Skipton	DQ		

### ***EVENT 415 FINAL OF EVENT 316 Mens Open 200m Backstroke***

Full Results

Place	Name	AaD	Club	Time	R.T.	FINA Pt	50	100	150
1.	Nicholas Pyle	16	Newcastle	1:59.95	+ 0.66	682	28.01	58.59	1:29.50
2.	Alexander Mason	15	Chester Le S <b>JG</b>	2:07.55	+ 0.57	567	30.55	1:03.73	1:36.42
3.	Simon Kliment	15	Donc Dartes <b>JS</b>	2:07.80	+ 0.57	564	29.83	1:02.83	1:35.90
4.	Oliver O'Halleron	16	Derwentside	2:08.44	+ 0.64	556	30.39	1:03.27	1:36.39
5.	Henry Hickson	16	Loftus Dol	2:09.33	+ 0.57	544	30.12	1:03.35	1:37.26
6.	James Keyworth	17	Chester Le S	2:09.99	+ 0.66	536	30.92	1:04.05	1:37.33
7.	Adam Wilson	15	Newcastle <b>JB</b>	2:10.28	+ 0.56	533	30.36	1:03.60	1:37.49
8.	Robbie Casson	14	Donc Dartes	2:11.78	+ 0.65	515	30.87	1:04.08	1:37.92
9.	George Wilde	17	Co Bradford	2:15.44	+ 0.64	474	30.52	1:05.10	1:40.36
	Daniel Morley	15	Derwentside	DQ					

### ***EVENT 416 FINAL OF EVENT 317 Womens Open 100m IM***

Full Results

Place	Name	AaD	Club	Time	R.T.	FINA Pt
1.	Debbie Cocking	15	Rotherham Mo <b>JG</b>	1:03.40	+ 0.65	714
2.	Stephanie Blakeburn	22	Billingham	1:03.84	+ 0.74	699
3.	Jessica Gillatt	19	South Axholm	1:07.71	+ 0.53	586
4.	Sophie Brandon	15	Newcastle <b>JS</b>	1:08.20	+ 0.71	573
5.	Caitlin Chadwick	15	Tynemouth <b>JB</b>	1:08.39	+ 0.83	568
6.	Hannah Trowsdale	15	Loftus Dol	1:08.40	+ 0.66	568
7.	Alina Willis	14	Tynemouth	1:09.07	+ 0.83	552
8.	Rebekah Worthy	15	Middlesboro	1:09.10	+ 0.65	551
9.	Maia Hall	14	Loftus Dol	1:09.73	+ 0.73	536
10.	Niamh Page	14	Newcastle	1:10.77	+ 0.85	513

### ***EVENT 417 Womens Open 800m Freestyle Team***

Full Results

Place	Name	Club	Time	R.T.	FINA Pt		
1.	Newcastle SwimTeam	Newcastle	8:33.58		685		
		Annalea Davison		2.08.93	+ 0.78	29.54	31.84
						33.52	34.03
		Lauren Hodgson		2.08.95	+ 0.22	29.40	32.77
						33.78	33.00
		Jane Brown		2.06.82	+ 0.07	27.85	31.95
						33.86	33.16
		Sian Martin		2.08.88	+ 0.32	29.62	33.11
						33.22	32.93
2.	Kingston Upon Hull SC	KingstonHull	8:39.54		662		
		Yasmin Brown		2.11.06	+ 0.76	29.51	33.23
						34.65	33.67
		Aleah Ross		2.10.27	+ 0.43	29.99	33.15
						34.31	32.82
		Eleanor Hextall		2.09.77	+ 0.46	29.40	33.14
						33.79	33.44
		Abbie Bowden		2.08.44	+ 0.53	29.36	32.73
						34.03	32.32
3.	City of Sunderland ASC	Co Sund'land	8:41.64		654		
		Anya Sordy		2.13.71	+ 0.63	30.69	34.33
						35.08	33.61
		Rachel Taylor		2.12.92	+ 0.41	31.01	33.36
						34.79	33.76
		Freya Rayner		2.10.19	+ 0.19	29.00	33.62
						34.25	33.32
		Lucy Ellis		2.04.82	+ 0.16	29.19	31.98
						32.27	31.38