

NEW!

TPRI Fluency Equating Tables

Why Measure Fluency Rates?

The ability to read fluently is important for readers primarily because fluency is closely tied to comprehension. However, we measure student fluency rates on TPRI for other reasons as well. Fluency growth suggests that students are learning to recognize more words automatically, decode words more quickly and are building their vocabularies. We also determine fluency rates because they are relatively quick and easy to measure, and they provide insight into whether students are making reading progress.

Assessing Progress is Tricky

On the TPRI, students typically read two stories each time the TPRI is administered (at BOY, MOY and EOY). The difficulty of the stories ranges from less challenging to more challenging. When students receive multiple fluency scores, and read stories of varying difficulty, it is sometimes hard to tell if students are improving from one time point to the next. The examples on the next page illustrate this difficulty and show how equated fluency scores can help.

TPRI Fluency Equating Tables – Tools for Teachers

TPRI provides tools to help teachers measure and understand fluency scores more effectively. These tools come in the form of Fluency Equating Tables which equate fluency performance on any story with the hardest End-of-Year story (Story 6).

Use the information in the tables on the following pages to determine the equated fluency score for each story that your students read (sample below).

INSTRUCTIONS:

1. Using the first column, locate the student's actual Words Correct per Minute (WCPM) fluency score.
2. Look across the columns to the right to find the Equated WCPM score for the story the student read.


NOTE: If the student read Story 6, the actual fluency score is the same as the equated score.

ACTUAL	BOY		MOY		EOY	
	Story 1 <i>Rosa's New Friend</i>	Story 2 <i>Skateboard!</i>	Story 3 <i>Spring Break</i>	Story 4 <i>Meat-Eating Plants</i>	Story 5 <i>Firefighter</i>	Story 6 <i>Sharks</i>
Student's Actual WCPM Score (Raw Score)	Equated WCPM	Equated WCPM	Equated WCPM	Equated WCPM	Equated WCPM	Equated WCPM
50	44.5	43.2	46.5	45.3	40.8	50.0
51	44.6	44.0	47.4	46.8	42.1	51.0
52	44.8	44.5	48.0	47.2	43.5	52.0
53	45.3	44.9	48.3	47.6	44.5	53.0
54	46.6	46.7	48.6	48.6	44.8	54.0
55	46.8	46.9	48.9	49.8	46.6	55.0
56	47.0	47.1	49.2	50.4	47.0	56.0
57	47.3	47.3	49.4	51.7	48.2	57.0


TPRI Fluency Equating Helps Teachers Assess Progress

With equated fluency scores teachers can reflect on student fluency without concern for how many TPRI stories were read, which story was read or how difficult the stories were. Consider the examples below:

Is Michael making good progress towards the 2nd grade End-of-Year goal of 90 WCPM?

Example Using ACTUAL TPRI Fluency Scores	BOY	MOY
	<ul style="list-style-type: none"> • Story 1 – 74 WCPM • Story 2 – 70 WCPM • Average Fluency Score: 72 WCPM 	<ul style="list-style-type: none"> • Story 3 – 81 WCPM • Story 4 – 74 WCPM • Average Fluency Score: 77.5 WCPM
		<p><i>It's hard to tell if Michael is improving enough. He is making progress though, and reading 77 WCPM is pretty good for second grade at MOY.</i></p>

	ACTUAL	BOY		MOY	
	Student's Actual WCPM Score (Raw Score)	Story 1 <i>Rosa's New Friend</i> Equated WCPM	Story 2 <i>Skateboard!</i> Equated WCPM	Story 3 <i>Spring Break</i> Equated WCPM	Story 4 <i>Meat-Eating Plants</i> Equated WCPM
Story 2	70	56.6	58.3	57.5	63.4
	71	58.3	58.8	58.6	65.1
	72	59.2	59.1	59.1	66.4
Stories 1 & 4	73	59.5	59.4	59.5	66.9
	74	60.0	60.3	59.9	68.4
	75	60.7	61.5	60.5	69.3
	76	61.3	62.1	61.2	69.5
	77	61.9	62.6	61.8	69.8
	78	63.3	63.0	63.5	69.9
	79	64.1	63.5	64.7	69.9
Story 3	80	65.2	64.1	65.8	70.0
	81	66.2	65.8	66.9	71.6
	82	66.9	66.4	68.0	72.2

Example Using EQUATED TPRI Fluency Scores	BOY	MOY
	<ul style="list-style-type: none"> • Story 1 – 60.0 WCPM • Story 2 – 58.3 WCPM • Average Fluency Score: 59.2 WCPM 	<ul style="list-style-type: none"> • Story 3 – 66.9 WCPM • Story 4 – 68.4 WCPM • Average Fluency Score: 67.6 WCPM
		<p><i>At BOY Michael was on target reading almost 60 WCPM at the start of second grade. Now he's falling behind! He's definitely not on track to reach 90 WCPM at EOY. I need to change my instruction to ensure he gets the help he needs.</i></p>

Making Instructional Decisions

Equated scores help to show difficulties that might be missed by looking just at actual scores. When grouping students and making instructional decisions using an equated TPRI fluency score, identify the equated fluency score for each story, then use these two equated scores to calculate the **AVERAGE EQUATED FLUENCY SCORE**.

Grade 3 - Fluency Equating Tables

INSTRUCTIONS:

1. Using the first column, locate the student's actual Words Correct per Minute (WCPM) fluency score.
2. Look across the columns to the right to find the Equated WCPM score for the story the student read.

NOTE: If the student read Story 6, the actual fluency score is the same as the equated score.

ACTUAL	BOY		MOY		EOY	
Student's Actual WCPM Score (Raw Score)	Story 1 <i>A Bully at School</i>	Story 2 <i>Getting the Vote</i>	Story 3 <i>Moonbeam</i>	Story 4 <i>Not a Normal Fish</i>	Story 5 <i>Exploring Mars</i>	Story 6 <i>Storm Chasers</i>
	Equated WCPM	Equated WCPM	Equated WCPM	Equated WCPM	Equated WCPM	Equated WCPM
15	23.6	NA	NA	NA	NA	15.0
16	23.8	NA	NA	NA	NA	16.0
17	24.0	NA	NA	NA	NA	17.0
18	24.1	NA	NA	NA	NA	18.0
19	24.3	NA	NA	NA	NA	19.0
20	24.5	NA	NA	NA	NA	20.0
21	24.6	NA	NA	NA	NA	21.0
22	24.8	NA	NA	NA	NA	22.0
23	25.0	NA	NA	NA	NA	23.0
24	25.1	NA	NA	NA	NA	24.0
25	25.3	NA	NA	21.7	NA	25.0
26	25.5	NA	NA	22.8	NA	26.0
27	25.6	NA	NA	23.8	NA	27.0
28	25.8	NA	NA	24.9	NA	28.0
29	26.0	NA	NA	26.0	NA	29.0
30	26.1	NA	NA	26.9	NA	30.0
31	26.3	NA	NA	30.1	21.2	31.0
32	26.5	NA	NA	33.0	22.8	32.0
33	26.6	NA	21.9	35.9	24.0	33.0
34	26.8	NA	25.5	37.6	25.2	34.0
35	26.9	NA	28.5	38.4	26.4	35.0
36	28.2	NA	31.3	39.0	26.9	36.0
37	29.1	NA	34.0	39.5	28.8	37.0
38	30.1	NA	36.8	40.1	30.1	38.0
39	31.0	25.5	37.6	40.7	31.3	39.0
40	31.9	33.1	38.3	41.2	32.5	40.0
41	32.9	37.6	38.8	41.7	33.7	41.0
42	33.8	38.2	39.2	42.3	34.9	42.0
43	34.7	38.7	39.6	42.9	36.1	43.0
44	35.6	39.1	40.0	43.4	37.4	44.0
45	36.6	39.5	40.5	43.9	38.6	45.0
46	37.5	39.9	40.9	44.4	39.8	46.0
47	38.2	40.3	41.3	45.4	41.0	47.0
48	38.9	40.8	41.7	46.5	41.7	48.0
49	39.5	41.2	42.7	47.6	42.4	49.0

Grade 3 - Fluency Equating Tables

ACTUAL	BOY		MOY		EOY	
	Story 1 <i>A Bully at School</i>	Story 2 <i>Getting the Vote</i>	Story 3 <i>Moonbeam</i>	Story 4 <i>Not a Normal Fish</i>	Story 5 <i>Exploring Mars</i>	Story 6 <i>Storm Chasers</i>
Student's Actual WCPM Score (Raw Score)	Equated WCPM	Equated WCPM	Equated WCPM	Equated WCPM	Equated WCPM	Equated WCPM
50	40.2	41.6	43.7	50.6	42.9	50.0
51	40.9	42.5	44.6	52.4	43.3	51.0
52	41.6	43.6	46.0	53.2	43.8	52.0
53	42.2	44.6	47.3	53.3	44.3	53.0
54	42.9	45.1	48.5	53.3	48.5	54.0
55	43.5	45.7	49.6	53.7	50.8	55.0
56	44.1	46.2	50.7	54.1	51.9	56.0
57	46.1	46.8	51.7	54.7	52.8	57.0
58	49.1	47.3	52.6	55.6	53.2	58.0
59	50.8	47.9	53.2	56.1	53.3	59.0
60	52.1	50.0	54.7	56.6	53.7	60.0
61	53.2	52.1	55.7	57.1	54.1	61.0
62	53.2	53.2	56.1	57.5	54.7	62.0
63	53.2	53.2	56.5	58.0	55.6	63.0
64	53.3	53.3	56.8	58.6	57.2	64.0
65	53.3	53.7	57.0	59.3	58.7	65.0
66	53.6	54.6	57.3	59.6	62.8	66.0
67	54.2	56.5	57.5	62.1	64.0	67.0
68	55.2	56.8	58.6	62.7	64.4	68.0
69	56.8	57.2	59.0	63.2	64.7	69.0
70	57.3	58.3	61.1	64.1	65.0	70.0
71	57.8	58.7	63.0	67.6	68.8	71.0
72	58.8	58.9	65.0	69.0	70.3	72.0
73	59.3	59.1	65.6	69.9	70.6	73.0
74	60.1	59.4	66.2	70.3	70.8	74.0
75	62.3	60.2	66.9	70.5	73.6	75.0
76	63.1	62.1	67.5	70.5	74.8	76.0
77	63.6	63.5	68.8	70.6	75.8	77.0
78	64.0	63.9	69.8	70.9	78.8	78.0
79	64.2	65.5	70.2	72.9	80.4	79.0
80	64.4	69.7	70.5	75.1	81.7	80.0
81	64.6	70.2	71.6	78.0	82.5	81.0
82	64.9	70.4	73.4	82.5	83.2	82.0
83	65.6	70.7	74.4	82.8	84.2	83.0
84	67.6	72.7	75.0	83.0	84.5	84.0
85	70.3	74.3	75.3	83.2	84.9	85.0
86	70.7	75.1	76.5	83.4	87.3	86.0
87	70.8	75.2	82.0	83.6	87.5	87.0
88	73.3	80.0	83.0	83.8	88.3	88.0
89	74.8	82.2	84.5	83.9	88.9	89.0
90	75.2	82.8	84.9	84.2	89.6	90.0
91	75.3	84.4	87.0	84.6	90.0	91.0
92	75.3	84.9	87.3	87.0	90.3	92.0
93	76.7	86.9	87.3	87.4	91.5	93.0
94	82.0	87.3	87.3	87.8	92.1	94.0

Grade 3 - Fluency Equating Tables

ACTUAL	BOY		MOY		EOY	
	Story 1 <i>A Bully at School</i>	Story 2 <i>Getting the Vote</i>	Story 3 <i>Moonbeam</i>	Story 4 <i>Not a Normal Fish</i>	Story 5 <i>Exploring Mars</i>	Story 6 <i>Storm Chasers</i>
	Equated WCPM	Equated WCPM	Equated WCPM	Equated WCPM	Equated WCPM	Equated WCPM
95	82.9	87.3	87.4	88.7	92.5	95.0
96	83.7	88.0	87.6	89.6	92.8	96.0
97	84.7	88.2	88.6	90.9	93.0	97.0
98	85.0	88.6	89.6	91.8	93.1	98.0
99	86.0	89.9	91.2	92.2	97.0	99.0
100	87.0	90.5	92.5	92.4	100.8	100.0
101	87.3	90.8	92.8	93.1	102.4	101.0
102	87.3	91.1	93.1	98.5	104.2	102.0
103	87.4	92.4	99.9	100.2	104.7	103.0
104	87.9	92.9	102.4	103.5	105.3	104.0
105	88.5	93.4	103.2	104.8	106.5	105.0
106	89.4	94.7	103.7	105.7	107.2	106.0
107	90.6	97.9	104.0	107.4	108.4	107.0
108	91.3	100.2	104.2	109.6	110.0	108.0
109	92.3	101.9	104.4	112.1	111.2	109.0
110	92.7	104.4	104.6	112.9	111.6	110.0
111	92.8	105.3	105.4	114.0	112.0	111.0
112	93.0	106.4	106.9	114.9	112.4	112.0
113	94.0	107.1	108.2	115.1	112.9	113.0
114	97.2	111.2	110.7	115.2	113.2	114.0
115	99.7	111.9	111.7	115.2	114.0	115.0
116	103.3	112.1	112.2	115.5	115.0	116.0
117	103.9	112.2	113.0	116.2	115.1	117.0
118	104.5	112.5	113.5	116.6	115.2	118.0
119	105.7	113.1	113.9	117.1	115.2	119.0
120	106.6	113.8	114.3	117.5	116.0	120.0
121	107.2	114.5	114.7	118.0	116.7	121.0
122	109.9	114.9	114.9	119.0	117.2	122.0
123	111.2	115.1	115.2	119.4	117.9	123.0
124	111.7	115.2	115.2	119.6	119.4	124.0
125	112.1	115.8	115.2	120.0	119.6	125.0
126	112.4	117.1	115.4	122.2	120.0	126.0
127	112.6	117.5	115.8	124.0	120.5	127.0
128	113.0	117.9	116.0	125.6	121.1	128.0
129	113.6	118.6	116.1	126.9	122.2	129.0
130	114.4	119.2	116.3	128.0	123.6	130.0
131	114.8	119.6	117.0	128.4	124.8	131.0
132	115.0	119.7	118.0	128.7	126.0	132.0
133	115.2	120.0	119.1	129.0	127.0	133.0
134	115.2	120.3	119.4	130.4	127.8	134.0
135	115.9	120.7	119.5	132.9	128.5	135.0
136	116.3	121.1	119.6	134.2	129.0	136.0
137	116.8	121.7	120.1	135.5	130.3	137.0
138	117.2	122.8	120.5	135.7	130.9	138.0
139	119.3	123.9	120.7	136.0	131.4	139.0

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ACTUAL	BOY		MOY		EOY	
	Story 1 <i>A Bully at School</i>	Story 2 <i>Getting the Vote</i>	Story 3 <i>Moonbeam</i>	Story 4 <i>Not a Normal Fish</i>	Story 5 <i>Exploring Mars</i>	Story 6 <i>Storm Chasers</i>
Student's Actual WCPM Score (Raw Score)	Equated WCPM	Equated WCPM	Equated WCPM	Equated WCPM	Equated WCPM	Equated WCPM
140	119.5	126.4	121.0	136.7	131.9	140.0
141	119.6	127.0	121.3	137.6	132.3	141.0
142	119.9	127.5	124.4	138.5	132.8	142.0
143	120.3	128.0	125.6	139.4	133.1	143.0
144	120.8	128.4	126.8	140.7	133.4	144.0
145	121.3	128.7	127.7	145.7	133.6	145.0
146	122.1	129.3	128.5	146.0	133.9	146.0
147	122.8	130.2	129.0	146.3	134.8	147.0
148	123.6	132.4	130.0	146.6	135.5	148.0
149	124.7	133.7	131.1	147.0	135.7	149.0
150	126.0	134.3	132.4	147.3	136.0	150.0
151	127.2	134.7	133.8	147.6	137.6	151.0
152	128.2	135.2	135.4	147.9	139.3	152.0
153	128.9	135.6	135.7	148.1	141.0	153.0
154	131.9	135.8	136.0	148.7	142.5	154.0
155	133.8	136.4	136.6	149.2	144.0	155.0
156	134.5	137.8	137.3	149.6	145.5	156.0
157	135.1	139.1	138.0	150.1	146.6	157.0
158	135.5	140.2	138.7	150.5	147.7	158.0
159	135.6	141.2	139.4	151.0	149.7	159.0
160	135.7	142.0	140.1	151.4	152.4	160.0
161	135.8	142.9	140.8	151.9	154.8	161.0
162	135.9	143.7	141.6	152.3	154.8	162.0
163	136.0	144.5	142.4	152.7	156.9	163.0
164	137.2	145.4	143.2	153.2	158.0	164.0
165	138.0	146.2	144.0	153.6	159.0	165.0
166	138.8	147.0	144.8	154.1	160.0	166.0
167	139.6	147.9	145.5	154.5	161.0	167.0
168	141.1	148.1	146.2	156.9	162.0	168.0
169	144.0	149.3	146.9	162.0	163.1	169.0
170	145.9	150.0	147.6	167.2	164.1	170.0
171	146.5	150.8	148.1	172.0	165.1	171.0
172	147.0	151.5	149.1	176.4	166.1	172.0
173	147.6	152.2	149.9	180.7	167.1	173.0
174	148.1	152.9	150.6	185.1	168.2	174.0
175	149.3	153.6	151.4	NA	169.2	175.0
176	150.6	154.4	152.2	NA	169.8	176.0
177	151.8	154.8	153.0	NA	169.8	177.0
178	153.1	154.8	153.7	NA	172.0	178.0
179	154.3	156.3	154.5	NA	172.9	179.0
180	159.8	157.0	154.8	NA	173.9	180.0
181	168.1	157.6	158.0	NA	174.8	181.0
182	174.1	158.2	159.9	NA	175.7	182.0
183	179.4	158.9	161.9	NA	176.6	183.0
184	184.8	159.5	163.9	NA	177.5	184.0

Grade 3 - Fluency Equating Tables

ACTUAL	BOY		MOY		EOY	
	Story 1 <i>A Bully at School</i>	Story 2 <i>Getting the Vote</i>	Story 3 <i>Moonbeam</i>	Story 4 <i>Not a Normal Fish</i>	Story 5 <i>Exploring Mars</i>	Story 6 <i>Storm Chasers</i>
	Equated WCPM	Equated WCPM	Equated WCPM	Equated WCPM	Equated WCPM	Equated WCPM
185	NA	160.1	165.9	NA	178.5	185.0
186	NA	160.8	167.8	NA	179.4	186.0
187	NA	161.4	169.8	NA	180.3	187.0
188	NA	162.0	173.8	NA	181.2	188.0
189	NA	162.7	177.7	NA	182.2	189.0
190	NA	163.3	181.7	NA	183.1	190.0
191	NA	164.0	185.6	NA	184.0	191.0
192	NA	164.6	NA	NA	184.9	192.0
193	NA	165.2	NA	NA	185.8	193.0
194	NA	165.9	NA	NA	NA	194.0
195	NA	166.5	NA	NA	NA	195.0
196	NA	167.1	NA	NA	NA	196.0
197	NA	167.8	NA	NA	NA	197.0
198	NA	168.4	NA	NA	NA	198.0
199	NA	169.0	NA	NA	NA	199.0
200	NA	169.7	NA	NA	NA	200.0
201	NA	171.5	NA	NA	NA	201.0
202	NA	173.6	NA	NA	NA	202.0
203	NA	175.8	NA	NA	NA	203.0
204	NA	177.9	NA	NA	NA	204.0
205	NA	180.0	NA	NA	NA	205.0
206	NA	182.1	NA	NA	NA	206.0
207	NA	184.3	NA	NA	NA	207.0
208	NA	NA	NA	NA	NA	208.0
209	NA	NA	NA	NA	NA	209.0