

**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 2<sup>nd</sup> grade End-of-Year goal of 90 WCPM?**

Example Using <b>ACTUAL</b> TPRI Fluency Scores	<b>BOY</b>	<b>MOY</b>
	<ul style="list-style-type: none"> <li>• Story 1 – 74 WCPM</li> <li>• Story 2 – 70 WCPM</li> <li>• <b>Average Fluency Score: 72 WCPM</b></li> </ul>	<ul style="list-style-type: none"> <li>• Story 3 – 81 WCPM</li> <li>• Story 4 – 74 WCPM</li> <li>• <b>Average Fluency Score: 77.5 WCPM</b></li> </ul>
		<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	73.0

Example Using <b>EQUATED</b> TPRI Fluency Scores	<b>BOY</b>	<b>MOY</b>
	<ul style="list-style-type: none"> <li>• Story 1 – 60.0 WCPM</li> <li>• Story 2 – 58.3 WCPM</li> <li>• <b>Average Fluency Score: 59.2 WCPM</b></li> </ul>	<ul style="list-style-type: none"> <li>• Story 3 – 66.9 WCPM</li> <li>• Story 4 – 68.4 WCPM</li> <li>• <b>Average Fluency Score: 67.6 WCPM</b></li> </ul>
		<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 2 - 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>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>
	Equated WCPM	Equated WCPM	Equated WCPM	Equated WCPM	Equated WCPM	Equated WCPM
15	NA	20.6	NA	NA	NA	15.0
16	NA	20.7	NA	NA	NA	16.0
17	NA	20.8	NA	NA	NA	17.0
18	NA	20.9	NA	NA	NA	18.0
19	NA	21.0	NA	20.6	NA	19.0
20	NA	21.1	NA	21.4	NA	20.0
21	NA	21.2	NA	22.9	NA	21.0
22	NA	21.3	NA	25.2	NA	22.0
23	NA	21.4	NA	27.5	NA	23.0
24	21.0	21.4	NA	27.9	NA	24.0
25	21.5	21.5	NA	28.3	NA	25.0
26	22.5	21.6	NA	28.7	NA	26.0
27	23.7	21.7	NA	29.1	NA	27.0
28	24.8	24.3	NA	29.5	NA	28.0
29	26.0	26.6	21.5	29.9	NA	29.0
30	27.2	28.0	23.4	30.4	NA	30.0
31	27.8	28.9	25.4	35.4	NA	31.0
32	28.2	29.7	27.5	36.9	20.8	32.0
33	28.6	30.0	28.5	38.1	21.3	33.0
34	29.0	30.2	29.6	39.3	21.7	34.0
35	29.4	30.4	30.1	39.8	25.2	35.0
36	29.8	31.1	30.5	40.2	28.2	36.0
37	30.1	33.3	31.4	40.7	29.8	37.0
38	30.3	35.4	32.9	41.2	29.9	38.0
39	30.6	38.7	34.3	41.6	30.1	39.0
40	35.0	39.7	35.4	41.9	30.2	40.0
41	36.9	40.3	36.9	42.0	30.4	41.0
42	38.5	40.8	38.2	42.0	30.5	42.0
43	39.7	41.4	39.3	42.0	30.6	43.0
44	40.6	41.9	41.5	42.1	32.4	44.0
45	41.5	42.0	42.0	42.1	33.9	45.0
46	42.0	42.0	42.1	42.1	35.4	46.0
47	42.2	42.1	42.2	42.2	36.7	47.0
48	43.2	42.2	44.5	42.9	38.0	48.0
49	44.3	42.4	45.2	44.5	39.3	49.0

Grade 2 - Fluency Equating Tables

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>
	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
58	48.0	47.5	49.7	52.7	50.8	58.0
59	49.1	47.8	50.0	53.2	52.2	59.0
60	50.0	48.2	50.2	54.1	52.5	60.0
61	50.8	49.2	50.5	55.2	52.6	61.0
62	52.0	50.0	51.0	55.9	52.7	62.0
63	52.3	51.0	51.6	56.9	52.8	63.0
64	52.5	52.3	52.1	58.6	53.4	64.0
65	52.8	52.5	52.4	59.2	54.8	65.0
66	53.3	53.7	52.7	59.4	56.1	66.0
67	53.9	55.4	53.2	59.7	56.9	67.0
68	54.4	56.7	55.1	60.1	57.7	68.0
69	54.9	57.7	56.2	61.4	58.5	69.0
70	56.6	58.3	57.5	63.4	59.1	70.0
71	58.3	58.8	58.6	65.1	59.4	71.0
72	59.2	59.1	59.1	66.4	59.8	72.0
73	59.5	59.4	59.5	66.9	60.5	73.0
74	60.0	60.3	59.9	68.4	61.5	74.0
75	60.7	61.5	60.5	69.3	62.1	75.0
76	61.3	62.1	61.2	69.5	62.7	76.0
77	61.9	62.6	61.8	69.8	63.3	77.0
78	63.3	63.0	63.5	69.9	63.7	78.0
79	64.1	63.5	64.7	69.9	64.8	79.0
80	65.2	64.1	65.8	70.0	66.2	80.0
81	66.2	65.8	66.9	71.6	66.8	81.0
82	66.9	68.1	69.6	72.9	68.6	82.0
83	68.7	69.0	69.9	73.5	68.9	83.0
84	69.4	69.9	70.0	73.8	69.4	84.0
85	69.9	71.0	70.6	74.6	70.0	85.0
86	70.3	72.7	72.7	75.9	70.9	86.0
87	71.1	73.0	73.0	77.6	71.8	87.0
88	72.5	73.5	73.2	78.7	72.8	88.0
89	73.0	73.8	73.5	79.1	73.7	89.0
90	73.4	74.1	73.8	80.0	76.3	90.0
91	73.5	74.8	73.9	83.3	77.6	91.0
92	73.7	75.5	74.6	84.5	79.0	92.0
93	73.8	76.1	76.1	85.2	80.7	93.0
94	74.7	76.5	76.6	85.8	82.2	94.0

Grade 2 - Fluency Equating Tables

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>
	Equated WCPM	Equated WCPM	Equated WCPM	Equated WCPM	Equated WCPM	Equated WCPM
95	76.0	76.9	77.1	86.5	83.2	95.0
96	76.7	77.4	77.7	87.2	83.6	96.0
97	77.3	78.7	78.7	87.6	83.9	97.0
98	78.4	79.1	78.9	87.9	85.2	98.0
99	79.0	81.0	79.2	88.3	85.7	99.0
100	80.1	83.0	81.7	88.6	87.3	100.0
101	81.3	83.8	84.1	89.0	88.3	101.0
102	83.6	84.8	85.0	89.8	90.2	102.0
103	85.1	85.8	85.7	91.8	93.3	103.0
104	86.7	86.3	87.3	93.3	94.1	104.0
105	88.7	86.7	88.0	94.3	96.5	105.0
106	90.2	87.1	88.5	95.7	97.7	106.0
107	90.8	87.9	88.8	96.9	98.5	107.0
108	91.5	89.5	89.0	98.2	99.1	108.0
109	92.4	90.6	89.4	99.0	99.8	109.0
110	93.2	92.9	89.8	99.7	100.7	110.0
111	93.5	93.5	90.2	101.0	101.4	111.0
112	94.1	94.2	92.2	103.5	102.6	112.0
113	95.0	95.6	93.4	105.7	105.7	113.0
114	95.4	98.7	93.6	107.1	106.1	114.0
115	96.3	99.7	93.9	108.5	106.6	115.0
116	97.3	100.2	94.9	113.0	107.9	116.0
117	98.2	101.0	95.6	114.7	108.4	117.0
118	99.3	103.0	96.2	116.7	108.8	118.0
119	99.7	104.4	99.5	117.0	110.2	119.0
120	100.0	104.7	101.4	117.4	112.1	120.0
121	100.8	105.0	103.1	118.0	113.8	121.0
122	104.8	105.3	104.5	119.2	115.1	122.0
123	106.3	105.6	105.7	120.9	115.5	123.0
124	107.6	106.3	106.8	121.3	115.9	124.0
125	109.3	107.2	107.5	121.7	116.3	125.0
126	111.1	108.1	108.2	122.1	117.1	126.0
127	112.5	108.7	108.9	123.0	117.7	127.0
128	113.6	109.9	110.9	124.1	118.0	128.0
129	114.4	111.4	112.7	125.0	120.2	129.0
130	115.1	112.6	113.8	127.1	121.6	130.0
131	116.2	113.7	114.4	128.9	121.9	131.0
132	117.4	115.0	114.9	130.2	122.3	132.0
133	117.7	115.7	115.4	130.9	122.9	133.0
134	118.1	116.4	115.8	131.6	123.2	134.0
135	119.4	117.3	116.2	133.4	123.5	135.0
136	121.2	117.9	116.7	134.9	124.0	136.0
137	121.6	118.3	117.3	138.0	124.5	137.0
138	122.0	119.2	118.7	140.6	125.0	138.0
139	122.5	120.1	120.6	141.3	126.2	139.0

Grade 2 - Fluency Equating Tables

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>
	Equated WCPM	Equated WCPM	Equated WCPM	Equated WCPM	Equated WCPM	Equated WCPM
140	123.0	120.8	121.2	141.8	127.5	140.0
141	123.6	121.0	121.7	142.2	129.0	141.0
142	124.7	121.3	122.0	142.7	130.2	142.0
143	126.0	121.5	122.3	148.3	130.9	143.0
144	127.5	121.8	122.6	150.9	131.6	144.0
145	128.1	122.1	123.0	152.2	133.3	145.0
146	128.6	122.6	124.1	153.5	134.9	146.0
147	129.1	123.1	125.9	154.4	137.4	147.0
148	129.6	123.7	127.2	155.4	139.2	148.0
149	130.0	125.1	128.7	156.1	140.3	149.0
150	130.9	126.2	130.0	157.2	141.4	150.0
151	132.0	127.3	130.4	158.1	142.4	151.0
152	133.9	129.0	130.8	159.0	142.8	152.0
153	136.4	130.4	131.2	160.9	144.3	153.0
154	138.9	131.1	131.6	163.1	145.3	154.0
155	140.0	131.6	133.6	165.3	146.3	155.0
156	140.9	132.6	135.9	167.5	147.2	156.0
157	141.5	133.4	138.4	169.7	148.2	157.0
158	142.0	134.1	140.0	171.9	173.8	158.0
159	142.5	134.9	141.2	174.2	177.2	159.0
160	143.7	136.0	141.8	175.9	180.1	160.0
161	145.4	137.0	142.5	177.6	183.0	161.0
162	147.1	138.1	144.8	179.2	186.0	162.0
163	148.9	138.8	148.7	180.9	188.0	163.0
164	150.4	139.3	151.6	182.5	188.0	164.0
165	151.7	139.8	153.6	184.2	189.3	165.0
166	153.0	140.3	154.7	185.8	189.9	166.0
167	154.1	140.8	155.6	187.5	190.4	167.0
168	155.0	142.0	157.0	188.0	191.0	168.0
169	155.9	144.3	159.1	188.0	191.6	169.0
170	156.9	148.0	164.6	189.3	192.1	170.0
171	157.8	150.8	170.5	189.8	192.7	171.0
172	158.8	152.7	174.6	190.3	193.2	172.0
173	162.6	154.6	177.0	190.8	193.8	173.0
174	169.3	156.7	178.9	191.3	194.4	174.0
175	174.6	158.7	180.7	191.7	194.9	175.0
176	174.6	161.8	182.6	192.2	195.5	176.0
177	174.6	165.3	184.5	192.7	196.1	177.0
178	176.3	168.9	186.3	193.2	196.6	178.0
179	176.8	172.5	188.0	193.7	197.2	179.0
180	177.3	174.6	188	194.2	NA	180.0
181	177.8	177.2	189.5	194.7	NA	181.0
182	178.3	179.0	190.2	195.2	NA	182.0
183	178.9	180.8	190.9	195.6	NA	183.0
184	179.4	182.7	191.6	196.1	NA	184.0

Grade 2 - Fluency Equating Tables

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>
	Equated WCPM	Equated WCPM	Equated WCPM	Equated WCPM	Equated WCPM	Equated WCPM
185	179.9	184.5	192.3	196.6	NA	185.0
186	180.4	186.3	193.0	197.1	NA	186.0
187	180.9	188.0	193.7	NA	NA	187.0
188	181.5	188.0	194.4	NA	NA	188.0
189	182.0	189.5	195.1	NA	NA	189.0
190	182.5	190.2	195.8	NA	NA	190.0
191	183.0	190.9	196.5	NA	NA	191.0
192	183.5	191.6	197.2	NA	NA	192.0
193	184.1	192.3	NA	NA	NA	193.0
194	184.6	193.0	NA	NA	NA	194.0
195	185.1	193.7	NA	NA	NA	195.0
196	185.6	194.4	NA	NA	NA	196.0
197	186.1	195.1	NA	NA	NA	197.0
198	186.6	195.8	NA	NA	NA	198.0
199	187.2	196.5	NA	NA	NA	199.0
200	187.7	197.2	NA	NA	NA	200.0
201	188.0	NA	NA	NA	NA	201.0
202	189.5	NA	NA	NA	NA	202.0
203	190.5	NA	NA	NA	NA	203.0
204	191.6	NA	NA	NA	NA	204.0
205	192.6	NA	NA	NA	NA	205.0
206	193.6	NA	NA	NA	NA	206.0
207	194.7	NA	NA	NA	NA	207.0
208	195.7	NA	NA	NA	NA	208.0
209	196.8	NA	NA	NA	NA	209.0