TELPAS

2016 Score Distributions and Statistics by Content Area and Grade

Glossary

7 K L V R J V V D U \ S U R Y L G H V W K H G H I L Q L W L R Q V W K D W D U H F R P P R Q O \ X V H G L Q V W D W L V W L F V W H [W E R R N V D Q G Z H E V L W H V
J U D S K L F V W K H R U H W L F D O V W D W H P H Q W V D Q G 7 (/ 3 6 5 R U L H Q W H G E \ V W D W L V W L F L D Q V
& R Q W H [W D Q G ' D W D 6 F L H Q F H 6 W D W L V W L F V 3 U R J U D P P L Q J L Q 5 R U G H U W R H [S O D L Q W K H F R Q F H S W V L
W K H R W K H U F R Q F H S W V L Q Y R O Y H G L Q F R P S X W L Q J V W D W L V W L F V

Descriptive Statistics

Mean. 7 K H P H D Q L V D P H D V X U H R I F H Q W U D O W H Q G H Q F \ , W L V
D V V H V V P H Q W , W L V F R P S X W H G E \ V X P P L Q J W K H V F R U H V R
W R W D O Q X P E H U R I V W X G H Q W V 1

Median. 7K H P H G L D Q L V D Q R W K H U P H D V X U H R I F H Q W U D O W H Q G
P L G G O H R T X W K Q H F \ U G H L V W U L E X W L R Q I R U W K H D V V H V V P H Q W , W
V F R U H D W Z K L F K W K H U H L V W K H V D P H Q X P E H U R I V F R U H V

Mode 7 K H R G H L V D Q R W K H U P H D V X U H R I F H Q W U D O W H Q G H Q F \
R E W D L Q H G V F R U H P H R U W K H D V V G H W H U P L Q H G E \ F R P S X W L Q J
G L V W U L E X W L R Q D Q G I L Q G L Q J W K H V F R U H R X Q W Z L W K W K H

Range. 7 K H U D Q J H L V D P H D V X U H R I V W D W L V W L F D O G L V S H U V L R
G L I I H U H Q F H E H W Z H Q W K H O R Z H V W D Q G K L J K H V W V F R U H V
D V V H V V P H Q W , W L V F R P S X W H G E \ V X E W U D F W L Q J W K H O R Z

Interq uartile Range. 7 K H L Q W H U T X D U W L O H U D Q J H L V D Q R W K H U P H D
Y D U L D E L O L W \ R U V S U H D G , W L V G H Q R W K H G L I I H U H Q F H E H W Z H
W K H S H U F H Q W L O H V R I W K H V F R U H G L V W U L E X W L R Q I R U W K H
V X E W U D F W L Q J W K H O X D U R W L H O H W W K H S R L Q W W K D W V S O L W V W
V F R U H V I U R P W K H W X D U W L O H W W K H S R L Q W W K D W V S O L W V
V F R U H V

Standar d Deviation (SD). 7 K H V W D Q G D U G G H Y L D W L R Q L V D Q R W K H U P
G L V S H U V L R Q Y D U L D E L O L W \ R U V S U H D G , W L V D Q L Q G L F D
D U R X Q G W K H P H D Q , W L V F R P S X W H G X V L Q J W K H I R O O R Z L Q

$$SD = \sqrt{\frac{\sum_{i=1}^{N} x_i - \bar{x}^2}{N - 1}}$$

Z K H U H x_i V W K H V F R U H R I W K H L W K G H P H Q W Q X P E H U R I W K H D Q D O \ V L V
V W X G H Q W V W K D W W R R N W K H D V V H V V P H Q W

Variance. 7K H Y D U L D Q F H L V D Q R W K H U P H D V X U H R I V W D W L V W L F
V S U H D G D U R X Q G W K H P H D Q , W L V F R P S X W H G D V W K H V T X

Skewness. 7KH VNHZQHVV LV DQ LQGLFDWRU RI WKH VKDSH RI
PHDVXUHPHQW WKDW WKH VFRUH GLVWULEXWLRQ OH
SRVLWLYH VNHZQHVV LQGLFDWHV WKDW WKH VFRUH GLVWU
QHJDWLYH VNHZQHVV LQGLFDWHV WKDW WKH VFRUH GLVWU
VNHZQHVV RI]HUR LQGLFDWHV WKDW WKH VFRUH GLVWULE
LV FRPSXWHG XVLQJ WKH IROORZLQJ IRUPXOD

$$\text{Skewness} \quad \frac{N}{(N-1)(N-2)} \sum_{i=1}^{N} \left(\frac{x_i - \bar{x}}{s_x} \right)^3 \qquad (1)$$

ZKHUH x_i LV WKH VFRUH RI WKH SDUWLFXODU PHPEHU RI [Q VFRUH V

Scale Score Descriptive Statistics for 2016 TELPAS Assessments (Online only)

Subject	N	Mean	Median	Mode	Range	Interquartile Range	SD	Variance	Skewness	Kurtosis
GRADE 2 READING	111927	635.50	629	613	573	89	66.77	4458.05	0.6478	0.7512
GRADE 3 READING	107791	691.60	691	741	587	87	67.22	4518.72	0.2055	0.2439
GRADE 4 READING	95014	712.67	714	739	605	76	58.53	3425.53	0.1178	0.3312
GRADE 5 READING	82705	735.44	739	768	605	79	62.91	3957.77	0.0218	0.4580
GRADE 6 READING	66120	728.87	730	749	617	73	55.67	3099.63	0.0837	0.7734
GRADE 7 READING	54105	732.22	734	749	617	75	57.18	3269.36	0.0148	0.6441
GRADE 8 READING	45394	734.53	735	769	607	79	57.99	3362.49	0.0308	1.1055
GRADE 9 READING	43940	724.36	721	717	607	81	61.45	3776.22	0.1886	0.7953
GRADE 10 READING	30277	755.29	757	790	617	83	61.04	3725.68	0.0584	0.2953
GRADE 11 READING	20656	766.73	766	790	617	81	61.42	3772.83	0.1430	0.7990
GRADE 12 READING	15976	768.83	770	807	617	81	60.29	3635.24	0.1483	0.8760

FREQUENCY DISTRIBUTION - SCALE SCORES
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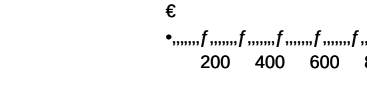
GRADE 07

SCALE_SCORE	Freq	Cum. Freq	Percent	Cum. Percent
350	8	8	0.01	0.01
411	2	10	0.00	0.02
448	2	12	0.00	0.02
472	1	13	0.00	0.02
504	2	15	0.00	0.03
517	1	16	0.00	0.03
539	5	21	0.01	0.04
549	5	26	0.01	0.05
557	17	43	0.03	0.08
566	27	70	0.05	0.13
574	45	115	0.08	0.21
581	72	187	0.13	0.35
588	80	267	0.15	0.49
595	154	421	0.28	0.78
602	199	620	0.37	1.15
608	254	874	0.47	1.62
614	260	1134	0.48	2.10
620	365	1499	0.67	2.77
625	444	1943	0.82	3.59
630	458	2401	0.85	4.44
636	524	2925	0.97	5.41
641	599	3524	1.11	6.51
646	599	4123	1.11	7.62
650	669	4792	1.24	8.86
655	691	5483	1.28	10.13
660	792	6275	1.46	11.60
664	827	7102	1.53	13.13
669	888	7990	1.64	14.77
673	921	8911	1.70	16.47
678	1003	9914	1.85	18.32
682	987	10901	1.82	20.15
686	1074	11975	1.99	22.13
691	1131	13106	2.09	24.22
695	1109	14215	2.05	26.27
699	1174	15389	2.17	28.44
703	1210	16599	2.24	30.68
708	1379	17978	2.55	33.23
712	1421	19399	2.63	35.85
716	1509	20908	2.79	38.64
721	1673	22581	3.09	41.74
725	1722	24303	3.18	44.92
730	1754	26057	3.24	48.16
734	1890	27947	3.49	51.65
739	1940	29887	3.59	55.24
744	1977	31864	3.65	58.89
749	2036	33900	3.76	62.66
754	1992	35892	3.68	66.34
759	2034	37926	3.76	70.10
764	1928	39854	3.56	73.66
770	1977	41831	3.65	77.31
776	1903	43734	3.52	80.83
782	1766	45500	3.26	84.10
789	1599	47099	2.96	87.05
797	1496	48595	2.76	89.82
805	1262	49857	2.33	92.15
814	1148	51005	2.12	94.27
824	975	51980	1.80	96.07
837	790	52770	1.46	97.53
852	615	53385	1.14	98.67
873	406	53791	0.75	99.42
908	229	54020	0.42	99.84
967	85	54105	0.16	100.00



SCALE_SCORE		Freq	Cum. Freq	Percent	Cum. Percent
365	€*	19	19	0.04	0.04
425	€	6	25	0.01	0.06
462	€	8	33	0.02	0.07
484	€	9	42	0.02	0.09
501	€	3	45	0.01	0.10
515	€	7	52	0.02	0.11
527	€	5	57	0.01	0.13
538	€	6	63	0.01	0.14
548	€*	11	74	0.02	0.16
557	€*	12	86	0.03	0.19
565	€*	15	101	0.03	0.22
573	€*	20	121	0.04	0.27
581	€**	37	158	0.08	0.35
588	€**	38	196	0.08	0.43
595	€****	77	273	0.17	0.60
601	€*****	91	364	0.20	0.80
607	€*******	149	513	0.33	1.13
613	€*********	178	691	0.39	1.52
619	€**********	236	927	0.52	2.04
625	€**********	270	1197	0.59	2.64
630	€**********	316	1513	0.70	3.33
635	€**********	367	1880	0.81	4.14
641	€**********	460	2340	1.01	5.15
646	€**********	503	2843	1.11	6.26
651	€**********	549	3392	1.21	7.47
655	€**********	618	4010	1.36	8.83
660	€**********	643	4653	1.42	10.25
665	€**********	622	5275	1.37	11.62
669	€**********	745	6020	1.64	13.26
674	€**********	764	6784	1.68	14.94
678	€**********	813	7597	1.79	16.74
683	€**********	919	8516	2.02	18.76
687	€**********	1050	9566	2.31	21.07
691	€**********	1028	10594	2.26	23.33
696	€**********	1173	11767	2.58	25.92
700	€**********	1211	12978	2.67	28.59
704	€**********	1263	14241	2.78	31.37
708	€**********	1242	15483	2.74	34.11
713	€**********	1353	16836	2.98	37.09
717	€**********	1413	18249	3.11	40.20
721	€**********	1450	19699	3.19	43.40
726	€**********	1426	21125	3.14	46.54
730	€**********	1441	22566	3.17	49.71
735	€**********	1412	23978	3.11	52.82
739	€**********	1371	25349	3.02	55.84
744	€**********	1404	26753	3.09	58.94
749	€**********	1443	28196	3.18	62.11
754	€**********	1388	29584	3.06	65.17
759	€**********	1417	31001	3.12	68.29
764	€**********	1395	32396	3.07	71.37
769	€**********	1480	33876	3.26	74.63
775	€**********	1448	35324	3.19	77.82
781	€**********	1355	36679	2.98	80.80
787	€**********	1351	38030	2.98	83.78
794	€**********	1392	39422	3.07	86.84
802	€**********	1227	40649	2.70	89.55
810	€**********	1125	41774	2.48	92.03
819	€**********	960	42734	2.11	94.14
829	€**********	844	43578	1.86	96.00
842	€**********	680	44258	1.50	97.50
857	€**********	541	44799	1.19	98.69
878	€**********	334	45133	0.74	99.43
913	€**********	192	45325	0.42	99.85
972	€***	69	45394	0.15	100.00

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100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400

FREQUENCY DISTRIBUTION - SCALE SCORES
TELPAS SPRING 2016
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GRADE 09

SCALE_SCORE		Freq	Cum. Freq	Percent	Cum. Percent
365	€*	24	24	0.05	0.05
425	€	3	27	0.01	0.06
462	€	4	31	0.01	0.07
484	€	2	33	0.00	0.08
501	€	4	37	0.01	0.08
515	€	3	40	0.01	0.09
527	€	5	45	0.01	0.10
538	€	7	52	0.02	0.12
548	€	6	58	0.01	0.13
557	€	9	67	0.02	0.15
565	€*	16	83	0.04	0.19
573	€**	34	117	0.08	0.27
581	€***	50	167	0.11	0.38
588	€****	83	250	0.19	0.57
595	€*******	139	389	0.32	0.89
601	€*********	175	564	0.40	1.28
607	€**********	221	785	0.50	1.79
613	€**********	307	1092	0.70	2.49
619	€**********	406	1498	0.92	3.41
625	€**********	467	1965	1.06	4.47
630	€**********	601	2566	1.37	5.84
635	€**********	658	3224	1.50	7.34
641	€**********	704	3928	1.60	8.94
646	€**********	728	4656	1.66	10.60
651	€**********	756	5412	1.72	12.32
655	€**********	779	6191	1.77	14.09
660	€**********	814	7005	1.85	15.94
665	€**********	808	7813	1.84	17.78
669	€**********	882	8695	2.01	19.79
674	€**********	941	9636	2.14	21.93
678	€**********	992	10628	2.26	24.19
683	€**********	1036	11664	2.36	26.55
687	€**********	1006	12670	2.29	28.83
691	€**********	1113	13783	2.53	31.37
696	€**********	1191	14974	2.71	34.08
700	€**********	1179	16153	2.68	36.76
704	€**********	1216	17369	2.77	39.53
708	€**********	1218	18587	2.77	42.30
713	€**********	1332	19919	3.03	45.33
717	€**********	1344	21263	3.06	48.39
721	€**********	1207	22470	2.75	51.14
726	€**********	1249	23719	2.84	53.98
730	€**********	1288	25007	2.93	56.91
735	€**********	1270	26277	2.89	59.80
739	€**********	1291	27568	2.94	62.74
744	€**********	1174	28742	2.67	65.41
749	€**********	1222	29964	2.78	68.19
754	€**********	1153	31117	2.62	70.82
759	€**********	1155	32272	2.63	73.45
764	€**********	1135	33407	2.58	76.03
769	€**********	1090	34497	2.48	78.51
775	€**********	1114	35611	2.54	81.04
781	€**********	1123	36734	2.56	83.60
787	€**********	1103	37837	2.51	86.11
794	€**********	1038	38875	2.36	88.47

FREQUENCY DISTRIBUTION - SCALE SCORES
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GRADE 10

SCALE_SCORE	Freq	Cum. Freq	Percent	Cum. Percent
390	5	5	0.02	0.02
450	1	6	0.00	0.02
487	2	8	0.01	0.03
527	2	10	0.01	0.03
540	2	12	0.01	0.04
563	1	13	0.00	0.04
573	3	16	0.01	0.05
582	11	27	0.04	0.09
590	18	45	0.06	0.15
598	24	69	0.08	0.23
605	45	114	0.15	0.38
612	90	204	0.30	0.67
619	117	321	0.39	1.06
625	141	462	0.47	1.53
632	186	648	0.61	2.14
638	217	865	0.72	2.86
644	253	1118	0.84	3.69
649	279	1397	0.92	4.61
655	322	1719	1.06	5.68
660	349	2068	1.15	6.83
665	369	2437	1.22	8.05
671	357	2794	1.18	9.23
676	429	3223	1.42	10.65
681	437	3660	1.44	12.09
685	508	4168	1.68	13.77
690	520	4688	1.72	15.48
695	565	5253	1.87	17.35
699	616	5869	2.03	19.38
704	620	6489	2.05	21.43
708	691	7180	2.28	23.71
713	700	7880	2.31	26.03
717	719	8599	2.37	28.40
722	725	9324	2.39	30.80
726	734	10058	2.42	33.22
730	760	10818	2.51	35.73
735	751	11569	2.48	38.21
739	778	12347	2.57	40.78
743	743	13090	2.45	43.23
748	837	13927	2.76	46.00
752	809	14736	2.67	48.67
757	877	15613	2.90	51.57
761	890	16503	2.94	54.51
766	904	17407	2.99	57.49
770	875	18282	2.89	60.38
775	918	19200	3.03	63.41
780	975	20175	3.22	66.63
785	925	21100	3.06	69.69
790	986	22086	3.26	72.95
796	949	23035	3.13	76.08
801	882	23917	2.91	78.99
807	870	24787	2.87	81.87
813	840	25627	2.77	84.64
820	851	26478	2.81	87.45
827	736	27214	2.43	89.88
833	640	27854	2.11	92.00
845	627	28481	2.07	94.07
852	498	28979	1.64	95.71
863	393	29372	1.30	97.01
875	331	29703	1.09	98.10
891	273	29976	0.90	99.01
912	176	30152	0.58	99.59
947	92	30244	0.30	99.89
1007	33	30277	0.11	100.00

100 200 300 400 500 600 700 800 900

FREQUENCY DISTRIBUTION - SCALE SCORES
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GRADE 11

SCALE_SCORE		Freq	Cum. Freq	Percent	Cum. Percent
	€				
390	€*	7	7	0.03	0.03
487	€	1	8	0.00	0.04
540	€	2	10	0.01	0.05
563	€	1	11	0.00	0.05
573	€	1	12	0.00	0.06
582	€	2	14	0.01	0.07
590	€*	10	24	0.05	0.12
598	€*	5	29	0.02	0.14
605	€**	19	48	0.09	0.23
612	€***	25	73	0.12	0.35
619	€*****	45	118	0.22	0.57
625	€******	63	181	0.30	0.88
632	€*******	71	252	0.34	1.22
638	€*********	90	342	0.44	1.66
644	€**********	100	442	0.48	2.14
649	€***********	121	563	0.59	2.73
655	€************	129	692	0.62	3.35
660	€************	133	825	0.64	3.99
665	€******************	187	1012	0.91	4.90
671	€******************	192	1204	0.93	5.83
676	€**********************	228	1432	1.10	6.93
681	€**********************	226	1658	1.09	8.03
685	€***************************	260	1918	1.26	9.29
690	€*******************************	287	2205	1.39	10.67
695	€**********************************	324	2529	1.57	12.24
699	€**	377	2906	1.83	14.07
704	€*************************************	359	3265	1.74	15.81
708	€**	447	3712	2.16	17.97
713	€**	454	4166	2.20	20.17
717	€**	447	4613	2.16	22.33
722	€**	466	5079	2.26	24.59
726	€***	491	5570	2.38	26.97
730	€***	500	6070	2.42	29.39
735	€***	497	6567	2.41	31.79
739	€**	526	7093	2.55	34.34
743	€**	535	7628	2.59	36.93
748	€**	540	8168	2.61	39.54
752	€**	525	8693	2.54	42.08
757	€**	603	9296	2.92	45.00
761	€**	616	9912	2.98	47.99
766	€**	613	10525	2.97	50.95
770	€**	628	11153	3.04	53.99
775	€**	660	11813	3.20	57.19
780	€**	718	12531	3.48	60.67
785	€**	615	13146	2.98	63.64
790	€**	738	13884	3.57	67.22
796	€**	678	14562	3.28	70.50
801	€**	638	15200	3.09	73.59
807	€**	656	15856	3.18	76.76
813	€**	649	16505	3.14	79.90
820	€**	661	17166	3.20	83.10
827	€**	609	17775	2.95	86.05
834	€**8	3	3.09		73.59
807	€********5	83	61*********B88r00***************m1N726	6********211************************		S	2.98	63.64
790	€**********************m1N726	6********************************	8	525	8693	2.54	42.08	
790	€***************	927********10****93.3**********************	86***********		S	2.98	63.64	

FREQUENCY DISTRIBUTION - SCALE SCORES

TELPAS SPRING 2016

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