

Free recall study methods

The first session of each experiment was a practice session to familiarize participants with the task. All sessions ended with a recognition test. Half of the sessions (randomly chosen) included a final free recall test before recognition in which participants recalled words from any of the lists from the session. The recognition and final free recall manipulations are not considered here.

Based on the results of a prior norming study, only words that were clear in meaning and that could be reliably judged in the size and animacy encoding tasks were included in the pool. There were three conditions: no-task lists (participants did not have to perform judgments with the presented items), single-task lists (all items were presented with the same task), and task-shift lists (items were presented with either task). The first two lists were task-shift lists, and each list started with a different task. The next 14 lists contained four no-task lists, six single-task lists (three of each task), and four task-shift lists.

The math distraction task was self-paced, such that a participant may have been presented with, but not responded to, a problem at the end of the distraction interval. Participants were given a monetary bonus based on the speed and accuracy of their responses.

Controlling semantic relatedness at the word list level

We compared the distribution of negative-negative WAS or LSA (Latent Semantic Analysis) semantic similarity values to the distribution of negative-neutral WAS or LSA values using a two-sample Kolmogorov-Smirnov test. Negative-negative similarity was not reliably larger than negative-neutral similarity (WAS, $ks = .0047$, $p = .95$; LSA, $ks < .01$, $p = .59$). Positive-positive similarity was reliably larger than positive-neutral similarity only for WAS (WAS, $ks = .05$, $p < .01$; LSA, $ks < .01$, $p = .99$).

While we controlled for semantic relatedness at the level of word pools, we did not control for semantic relatedness at the list level. To address this potential confound, we ran a combined semantic-valence CRP analysis. The semantic-valence CRP (Figure 1) shows the likelihood of a particular transition, where there are four valence transitions (negative-negative, negative-neutral, positive-neutral, positive-positive) and either five semantic bins (WAS, [-.15 to .08, .08 to .31, .31 to .54, .54 to .77, .77 to 1]) or three semantic bins (LSA, [-.2 to .2, .2 to .6, .6 to 1]). Different numbers of bins were used because there were no negative-negative transitions for LSA bins $> .7$. For each transition within each list, we calculated the number of actual and possible transitions in a given bin (e.g. negative-negative, semantic bin $> .7$). Importantly, as each of these calculations occurred within list, it accounts for any imbalance in within-list semantic similarity. If negative-negative transitions were driven exclusively by semantic relatedness, we would predict that high-semantic negative-negative transitions would be equally likely as high-semantic negative-neutral transitions. We found that even when controlling for semantic relatedness within list, same valence transitions

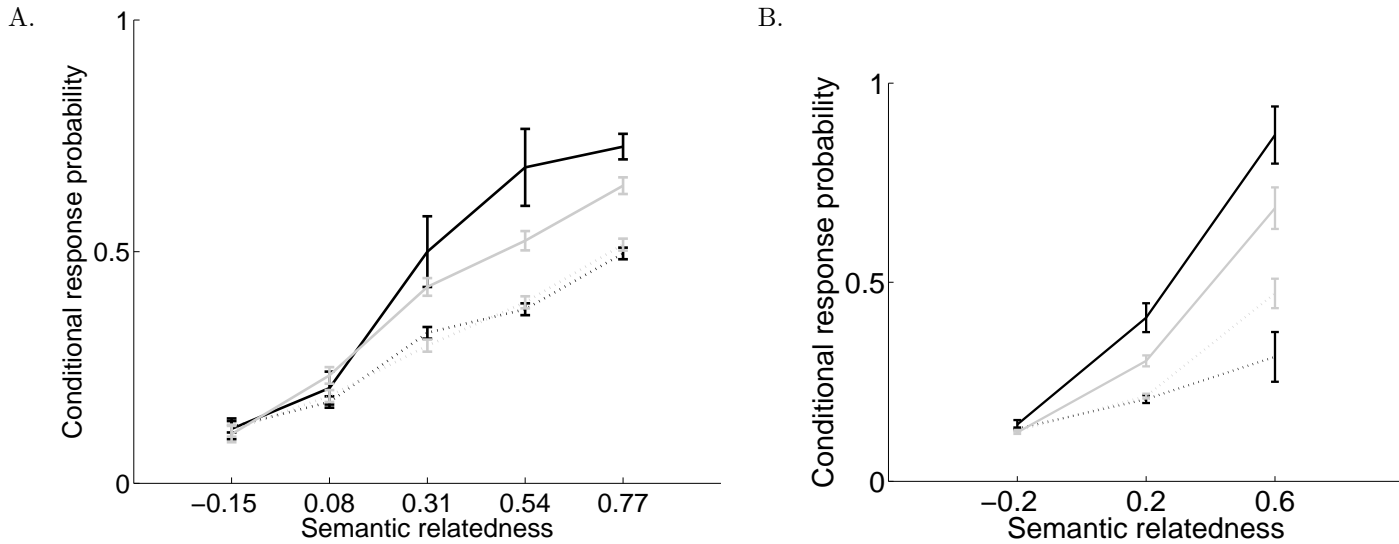


Figure 1. Semantic-valence CRP. The plots show four transition types (negative-negative, solid, black; negative-neutral, dashed, black; positive-positive solid, light gray; positive-neutral, dashed, light gray) as a function of semantic bin. Error bars are standard error of the mean. **(A)** Five semantic WAS bins (-.15 to .08, .08 to .31, .31 to .54, .54 to .77, .77 to 1). **(B)** Three semantic LSA bins (-.2 to .2, .2 to .6, .6 to 1)

were more likely than different valence transitions. These results argue against a within-list semantic relatedness effect.

Distinctiveness

By virtue of being a small proportion of the total items presented, emotional items might have been more distinctive than neutral items. To assess this possibility, for each study list we calculated the average number of semantic neighbors for positive, neutral and negative items. Semantic neighbors were any other items presented on the same list with a WAS value of .2 or greater. The assumption is that items with more neighbors are less distinctive and that neutral items will tend to have more neighbors. Therefore, we iteratively removed non-distinct neutral items until neutral items had on average .21 neighbors per list, which did not differ from the average number of list neighbors for negative items, .20 ($t(151) = 1.6, p = .12$). Positive items had on average .24 neighbors per list, which was significantly greater than the number of neutral item neighbors ($t(151) = 8.9, p < .01$), leaving neutral items *more distinctive* than positive items. When controlling for distinctiveness in this manner, probability of recall was still greater for emotional than neutral items (negative vs. neutral, $t(151) = 2.2, p = .03$; positive vs. neutral $t(151) = 4, p < .01$). Likewise, transitions between same-valence items was still more likely than transitions between different-valence items (negative-negative vs. negative-neutral, $t(151) = 5.1, p < .01$, positive-positive vs. positive-neutral, $t(151) = 7.5, p < .01$).

Word	Valence	Arousal	Word	Valence	Arousal	Word	Valence	Arousal
ABDOMEN	4.77	5.05	FACE	6.00	4.99	POCKET	5.50	4.45
ACID	3.14	6.53	FACTORY	4.59	5.44	POCKETBOOK	5.52	4.79
ACORN	5.47	4.04	FAIRY	6.44	4.35	POET	5.95	3.82
ACROBAT	6.01	5.99	FAMILY	7.28	4.39	POISON	2.27	7.20
ACTOR	5.76	5.60	FAN	6.12	4.72	POLE	5.21	4.66
ACTRESS	6.09	5.45	FARM	6.19	4.19	POLICE	4.68	7.09
ADOLESCENT	5.17	5.43	FARMER	6.14	4.20	POLITICIAN	3.33	6.31
ADULT	5.77	5.40	FATHER	6.55	4.75	POLYESTER	4.33	4.78
AFRICA	5.47	5.54	FAUCET	5.35	4.52	POND	6.42	3.11
AGENT	4.90	5.54	FEAST	6.98	5.54	PONY	6.50	4.56
AIRCRAFT	5.70	6.20	FEATHER	6.06	3.46	POOL	6.70	4.12
AIRPLANE	5.68	6.15	FELLOW	5.77	4.44	POPCORN	6.67	4.75
AIRPORT	5.37	6.26	FEMALE	6.91	5.48	POPE	4.90	4.31
ALBUM	6.06	4.40	FENCE	5.09	4.40	PORCH	6.14	3.49
ALLEY	4.60	5.55	FIDDLE	5.87	4.85	PORCUPINE	4.77	5.62
ALLIGATOR	4.27	6.68	FIELD	6.13	3.79	PORK	5.37	5.03
ALMANAC	5.67	4.39	FIG	5.54	4.25	PORPOISE	5.91	4.53
ALMOND	6.15	4.43	FIGHTER	4.41	6.92	PORT	5.47	4.66
AMBULANCE	3.91	7.10	FILM	6.33	5.14	PORTRAIT	5.97	4.26
ANCESTOR	6.07	4.73	FIN	5.24	4.86	POSSUM	4.26	4.99
ANCHOR	5.12	4.36	FINGER	5.47	4.75	POSTAGE	4.91	4.53
ANGEL	7.13	4.05	FINGERNAIL	4.93	4.82	POT	5.30	4.52
ANIMAL	6.35	5.14	FIREMAN	6.35	6.35	POTATO	6.13	4.33
ANKLE	5.23	4.53	FIREPLACE	6.55	3.95	POTTERY	5.89	4.09
ANT	4.04	5.18	FISH	5.78	4.38	POWDER	5.39	4.25
ANTEATER	4.99	5.16	FIST	3.98	6.37	PRAIRIE	6.14	3.19
ANTELOPE	5.81	4.56	FLAG	5.94	5.25	PREACHER	4.91	4.88
ANTENNA	5.19	4.78	FLANNEL	5.62	3.53	PREDATOR	2.97	7.31
ANTLER	5.22	5.05	FLASHLIGHT	5.71	4.82	PRESIDENT	5.18	6.24
APARTMENT	5.35	4.67	FLASK	5.36	4.84	PRIEST	4.90	4.63
APE	5.51	5.87	FLEA	2.60	6.04	PRIMATE	5.34	5.52
APPENDAGE	4.83	5.14	FLEET	5.24	5.35	PRINCE	5.85	5.51
APPLE	6.86	4.54	FLESH	4.81	5.72	PRINCESS	6.48	5.32
APPLICATION	5.05	5.24	FLIPPER	5.53	4.81	PRINTER	5.24	4.81
APRON	5.29	4.07	FLOOR	5.23	4.22	PRISON	2.21	7.11
ARCHITECT	5.79	5.10	FLORIDA	6.06	5.19	PRISONER	2.53	6.85
ARENA	5.51	5.89	FLOUR	5.68	4.06	PRODUCER	5.41	5.23
ARM	5.44	4.61	FLOWER	7.17	3.28	PROFESSIONAL	5.99	5.23
ARMY	4.76	6.64	FLUTE	6.15	4.27	PROFESSOR	5.83	5.28
ARROW	5.17	5.83	FLY	4.18	5.58	PROTON	5.43	5.00
ARTERY	4.82	5.61	FOE	3.07	6.64	PROTRACTOR	4.93	4.69
ARTICLE	5.40	4.81	FOLDER	5.31	4.29	PRUNE	4.47	4.31
ARTIST	6.53	4.91	FOLLOWER	4.74	4.98	PUB	5.87	5.22
ASH	3.93	4.77	FOOT	5.05	4.58	PUBLICATION	5.45	4.78
ASHTRAY	3.08	5.23	FOOTBALL	5.81	5.91	PUBLISHER	5.43	4.83
ASIA	5.96	5.44	FOREHEAD	5.19	4.51	PUCK	5.06	5.16
ASPIRIN	5.50	4.77	FOREST	6.65	3.81	PUDDING	6.78	4.40
ASSISTANT	5.56	4.88	FORK	5.34	4.81	PUDDLE	4.78	4.33
ASSOCIATE	5.26	4.79	FORT	5.51	5.17	PUMP	5.08	4.91
ASTEROID	4.89	6.51	FOSSIL	5.79	4.81	PUMPKIN	6.36	4.37
ASTRONAUT	6.58	5.96	FOUNTAIN	6.53	3.90	PUPIL	5.43	4.97
ATHLETE	6.06	5.89	FOX	5.84	5.66	PUPPY	7.78	4.99
ATLAS	5.89	4.82	FRAGRANCE	6.29	5.02	PURSE	5.71	4.73
ATMOSPHERE	5.97	4.40	FRAME	5.30	4.56	PUZZLE	6.30	5.52
ATOM	5.59	5.22	FRANCE	6.15	5.49	QUAIL	5.69	4.35
ATTIC	5.05	4.77	FRECKLE	5.43	4.59	QUARTER	6.00	4.93
ATTIRE	5.57	4.75	FREEWAY	5.04	6.04	QUEEN	5.77	5.47
ATTORNEY	4.22	6.24	FREEZER	5.34	4.82	QUILL	5.33	4.36
AUDIENCE	5.53	5.78	FRIAR	5.14	4.27	QUILT	6.34	3.20

AUNT	6.39	4.35	FRIEND	7.68	4.50	RABBIT	6.52	4.41
AUTHOR	5.98	4.51	FRIES	6.65	5.11	RACCOON	5.02	5.47
AUTOMOBILE	5.90	5.67	FROG	5.41	4.75	RACK	5.15	4.80
AWARD	6.92	6.10	FROST	4.96	4.74	RACKET	4.62	5.67
BABY	6.69	4.84	FRUIT	6.99	4.49	RADIATOR	4.89	5.00
BACK	4.96	4.77	FUDGE	6.91	4.98	RADIO	6.18	5.11
BACKBONE	5.47	5.13	FUGITIVE	2.73	7.07	RADISH	4.81	4.46
BACON	6.77	5.67	FUNERAL	2.16	6.27	RAFT	5.59	4.90
BADGE	5.16	5.53	FUNGUS	2.97	5.91	RAG	4.32	4.62
BAG	5.39	4.47	FUR	5.41	4.50	RAIL	5.20	4.76
BAIT	4.46	5.34	FURNITURE	5.86	4.15	RAILROAD	5.73	5.16
BAKER	6.25	4.11	GALAXY	6.64	5.62	RAISIN	5.57	4.34
BALCONY	6.10	4.37	GALLON	5.34	4.62	RAKE	4.88	4.80
BALL	5.86	5.02	GANG	2.76	6.87	RAM	5.11	5.54
BALLERINA	6.35	4.82	GANGSTER	2.84	7.06	RANCH	5.97	4.50
BALLOON	6.43	4.28	GARAGE	5.35	4.38	RASH	2.73	6.47
BALLOT	5.21	5.22	GARBAGE	2.74	5.52	RASPBERRY	6.65	4.76
BANANA	6.68	4.45	GARDEN	6.94	3.22	RAT	2.95	6.65
BAND	6.20	5.52	GARLIC	5.61	5.08	RATTLE	4.67	5.82
BANDAGE	4.25	5.47	GATE	5.45	4.60	RAZOR	4.48	5.98
BANDANNA	5.26	4.50	GAUZE	4.38	4.78	REBEL	4.50	6.72
BANDIT	3.14	6.81	GAVEL	4.67	5.50	RECEIPT	5.06	4.84
BANJO	5.91	5.09	GAZELLE	6.06	4.61	RECEPTIONIST	5.53	4.88
BANK	5.22	5.48	GEM	6.74	5.35	RECIPE	6.23	4.49
BANKER	4.54	5.44	GENERAL	5.16	5.58	RECORD	5.68	4.85
BANNER	5.47	4.73	GENTLEMAN	6.62	4.67	REEF	6.28	4.27
BANQUET	6.30	5.33	GERM	2.76	6.20	REFEREE	5.09	5.48
BARK	4.63	5.65	GHETTO	2.64	6.53	REFRIGERATOR	5.94	4.47
BARLEY	5.34	4.12	GHOST	3.96	6.53	REGISTER	5.04	4.85
BARN	5.68	3.98	GIFT	7.41	5.72	REINDEER	6.39	4.59
BARRACUDA	4.05	6.59	GIRAFFE	6.34	4.98	RELATIVE	6.14	4.82
BARREL	5.12	4.51	GIRL	6.77	5.29	RELISH	5.39	4.52
BARTENDER	5.71	5.35	GLACIER	5.51	4.83	REPORT	4.97	5.11
BASEBALL	5.88	5.26	GLASS	5.74	4.69	REPTILE	4.67	6.08
BASEMENT	4.98	4.67	GLASSES	5.48	4.45	RESORT	6.76	3.77
BASKET	5.60	4.22	GLOBE	6.14	4.84	RESTAURANT	6.44	5.12
BASKETBALL	5.85	5.56	GLOVE	5.46	4.30	RIB	5.34	4.87
BASSINET	5.61	4.11	GLUE	5.15	4.71	RIBBON	6.08	4.09
BATH	6.44	3.11	GOAT	5.46	4.86	RICE	6.26	4.13
BATHROOM	5.04	4.52	GOBLIN	3.63	6.46	RIDER	5.51	5.33
BATHTUB	6.05	3.22	GODDESS	6.59	5.78	RIFLE	3.93	7.06
BATTERY	5.18	5.31	GOLD	6.94	5.99	RING	6.42	5.52
BAY	6.12	3.54	GOO	3.77	5.26	RIVER	6.62	3.90
BEAD	5.51	4.52	GOOSE	5.71	4.46	ROACH	2.16	6.94
BEAKER	5.26	4.86	GORILLA	5.36	6.31	ROAD	5.70	5.07
BEAN	5.63	4.39	GOVERNOR	4.63	5.41	ROBBER	2.31	7.13
BEAR	5.28	6.78	GOWN	5.98	4.78	ROBE	5.67	3.66
BEARD	5.11	4.97	GRADUATE	6.69	5.57	ROBIN	6.43	4.02
BEAST	3.79	6.69	GRAPE	6.58	4.59	ROBOT	5.74	5.70
BEAVER	5.56	4.91	GRASS	6.32	3.09	ROCK	5.35	4.30
BED	6.91	3.05	GRASSHOPPER	4.95	4.85	ROCKET	5.73	6.56
BEDROOM	6.45	3.93	GRATE	4.62	5.02	ROD	4.91	5.13
BEE	4.32	6.32	GRAVE	2.80	5.99	RODENT	2.88	6.53
BEEF	5.93	5.32	GRAVEL	4.68	4.63	ROOF	5.38	4.44
BEER	5.71	5.28	GREASE	3.88	5.30	ROOM	5.70	4.06
BEET	4.55	4.42	GRILL	6.04	5.24	ROOMMATE	5.18	5.33
BEETLE	4.15	5.51	GRIZZLY	4.22	6.88	ROOST	5.23	4.52
BEGGAR	3.32	5.82	GROCERIES	6.26	4.95	ROOSTER	5.33	5.40
BELL	5.80	5.09	GROCERY	5.98	4.86	ROOT	5.10	4.24
BELLY	4.83	4.90	GROOM	6.16	5.15	ROPE	5.11	4.92

BELT	5.04	4.81	GROUND	5.32	4.10	ROSE	7.17	3.96
BENCH	5.46	4.06	GUARD	5.17	5.81	ROUGE	5.05	5.08
BERRY	6.82	4.40	GUARDIAN	6.09	4.79	RUBY	6.74	5.30
BEVERAGE	6.52	4.54	GUEST	5.76	5.07	RUG	5.48	3.94
BIBLE	4.80	4.23	GUITAR	6.59	5.12	RULER	4.96	4.87
BIKE	6.24	5.21	GULL	4.98	4.20	RUM	5.80	5.19
BILL	3.90	5.75	GUM	5.77	4.46	RUNNER	5.75	5.69
BINDER	5.01	4.51	GUN	3.58	7.39	RUST	3.37	5.03
BIOLOGIST	5.93	5.12	GYM	5.51	5.95	SACK	4.93	4.38
BIRD	6.44	4.31	GYMNAST	5.99	5.71	SADDLE	5.50	4.68
BISCUIT	6.28	4.17	HAIL	3.93	5.96	SAGE	6.05	4.01
BISON	5.55	5.03	HALL	5.29	4.34	SAILOR	5.68	5.23
BLACKBERRY	6.47	4.53	HAM	5.95	4.81	SALAD	6.17	4.19
BLACKBOARD	5.16	4.64	HAMBURGER	6.64	5.36	SALESMAN	4.17	5.48
BLADE	4.42	6.53	HAMMER	4.95	5.76	SALIVA	4.08	5.19
BLANKET	6.47	2.74	HAMMOCK	6.72	2.55	SALMON	5.60	4.60
BLENDER	5.53	5.16	HAMPER	4.78	4.28	SALOON	5.49	5.31
BLOCKADE	3.83	6.21	HAND	5.58	4.52	SALT	5.69	4.77
BLOSSOM	6.89	3.84	HANDBAG	5.64	4.56	SAND	5.70	3.39
BLOUSE	5.89	4.64	HANDCUFFS	3.41	6.95	SANDPAPER	4.33	5.28
BLUEBERRY	6.89	4.35	HANDKERCHIEF	5.20	4.10	SANDWICH	6.82	4.63
BLUEJAY	6.54	4.38	HANGER	4.91	4.70	SAP	4.69	4.52
BLUEPRINT	5.48	4.72	HARE	5.76	4.36	SAPPHIRE	6.86	5.51
BOARD	5.12	4.37	HARP	6.32	3.55	SARDINE	3.68	4.66
BOAT	6.26	4.52	HAT	5.65	4.32	SATURN	6.11	5.31
BODY	5.66	5.56	HATCHET	3.88	6.47	SAUCER	5.31	4.29
BOLT	4.94	5.37	HAWK	5.81	5.87	SAUSAGE	5.75	5.06
BOMB	2.25	7.50	HAY	5.31	3.91	SAW	4.60	5.77
BONE	4.87	5.13	HAYSTACK	5.51	3.94	SAXOPHONE	5.92	4.91
BOOK	6.98	3.83	HEAD	5.57	5.01	SCALE	4.82	4.91
BOOT	5.27	4.70	HEADBAND	5.38	4.42	SCALLOP	5.34	4.59
BOOTH	5.25	4.52	HEART	6.60	5.22	SCALPEL	3.80	6.64
BOSS	4.39	6.14	HEATER	5.88	4.73	SCAPEGOAT	3.16	6.21
BOTTLE	5.45	4.56	HEDGE	5.40	4.15	SCARECROW	4.95	5.34
BOUILLON	5.50	4.38	HEEL	5.05	4.66	SCARF	5.74	4.20
BOULDER	4.93	4.69	HELICOPTER	5.81	6.15	SCENERY	6.93	3.28
BOULEVARD	5.52	4.60	HELMET	5.34	5.08	SCHOOL	5.65	5.39
BOUQUET	6.55	4.14	HEN	5.64	4.25	SCIENTIST	6.25	5.55
BOWL	5.51	4.21	HERB	6.07	4.02	SCISSORS	5.12	5.38
BOX	5.17	4.57	HERD	5.16	4.96	SCOTCH	5.66	4.99
BOXER	5.02	6.37	HERO	7.22	6.21	SCOUT	5.44	5.10
BOY	6.01	4.76	HIGHWAY	5.15	5.68	SCREEN	5.45	4.44
BOYFRIEND	6.30	5.77	HIKER	5.80	5.40	SCREW	4.92	5.36
BRACELET	6.03	4.82	HINGE	5.13	4.70	SCREWDRIVER	5.08	5.11
BRACES	3.97	5.15	HIP	5.52	4.82	SCRIBBLE	5.07	4.86
BRAIN	6.34	5.58	HOE	4.63	4.81	SCROLL	5.30	4.64
BRAKE	5.04	5.30	HOME	7.38	2.76	SCULPTURE	6.09	4.31
BRAN	5.09	4.33	HONEY	6.91	4.10	SEA	6.77	3.73
BRANCH	5.57	4.37	HOOD	4.97	4.84	SEAFOOD	5.74	5.02
BRANDY	5.54	4.76	HOOK	4.54	5.49	SEAGULL	5.19	4.34
BREAD	6.47	3.98	HOOP	5.52	4.70	SEAL	6.04	4.41
BREAST	6.38	6.00	HORIZON	6.44	3.72	SEASHORE	7.09	3.31
BRICK	5.02	4.79	HORNET	2.81	7.00	SEAT	5.48	3.96
BRIDE	6.72	5.22	HORSE	6.29	4.88	SECRETARY	5.65	5.08
BRIDGE	5.64	4.99	HOSE	5.30	4.66	SEED	5.98	4.28
BRIEFCASE	5.13	4.67	HOSPITAL	4.08	6.68	SENATE	3.88	5.60
BROCCOLI	5.55	4.47	HOSTAGE	2.50	7.48	SENATOR	3.76	5.58
BROOK	6.38	3.15	HOSTESS	5.90	5.06	SERGEANT	4.90	6.00
BROOM	4.92	4.46	HOUND	5.35	5.28	SERPENT	3.63	6.78
BROTHER	6.41	4.88	HOUSE	6.55	3.86	SERVANT	4.05	5.24

BRUISE	3.18	6.09	HUMAN	6.41	5.21	SERVER	5.47	5.05
BRUNETTE	6.53	4.97	HURRICANE	2.88	7.53	SHACK	4.50	4.59
BRUSH	5.46	4.23	HUSBAND	6.54	4.89	SHAMPOO	6.02	4.08
BUBBLE	6.41	3.92	HUT	5.22	4.32	SHARK	4.11	7.26
BUCKET	5.10	4.46	ICE	5.58	4.81	SHEARS	4.89	5.46
BUCKLE	5.19	4.75	ICEBERG	4.73	5.33	SHED	5.05	4.36
BUFFALO	5.78	5.29	ICING	6.57	4.73	SHEEP	5.85	3.62
BUG	3.66	5.82	IDOL	5.34	5.57	SHEET	5.57	3.90
BUGGY	4.90	4.64	IGLOO	5.71	4.48	SHELF	5.33	4.49
BUGLE	5.24	5.45	INCENSE	5.60	4.14	SHELL	5.68	3.98
BUILDER	5.62	5.24	INDIAN	5.64	5.28	SHELTER	6.05	4.04
BUILDING	5.52	4.81	INFANT	6.27	4.87	SHEPHERD	5.75	3.89
BULB	5.53	4.59	INMATE	2.71	6.82	SHERIFF	4.73	6.53
BULL	4.76	6.41	INN	5.99	3.89	SHINGLE	4.46	4.79
BULLET	3.31	7.00	INSECT	3.71	6.00	SHIP	5.84	5.21
BULLETIN	5.18	5.28	INSTRUCTOR	5.57	5.28	SHIRT	5.78	4.41
BULLY	2.34	6.95	INTESTINE	3.80	5.74	SHOE	5.76	4.45
BUN	5.82	4.37	INVENTOR	6.32	5.52	SHOELACE	5.22	4.21
BUNNY	7.03	3.64	IRON	4.93	4.95	SHOP	5.96	5.37
BUREAU	4.79	4.76	ISLAND	6.89	3.77	SHORE	6.59	3.26
BURGLAR	2.38	7.31	ITEM	5.15	4.58	SHORTCAKE	6.74	4.72
BUS	5.00	5.02	JACKET	5.75	4.34	SHORTS	5.77	4.57
BUSH	5.11	4.27	JAM	5.88	4.60	SHOULDER	5.38	4.57
BUTCHER	4.40	6.05	JAPAN	6.09	5.53	SHOVEL	4.72	5.12
BUTLER	5.33	4.53	JAR	5.31	4.41	SHOWER	6.72	3.91
BUTTER	5.99	4.14	JAW	4.80	5.12	SHRIMP	5.66	4.96
BUTTERFLY	7.18	3.52	JEANS	6.15	4.52	SHRINE	5.53	4.62
BUTTON	5.48	4.43	JEEP	5.85	5.42	SHRUB	5.47	4.08
BUYER	5.43	5.36	JELLO	6.29	4.16	SHUTTER	4.96	4.58
CAB	5.12	5.01	JELLY	5.98	4.56	SIBLING	6.33	4.97
CABBAGE	4.95	4.33	JET	5.81	6.33	SICKLE	4.08	5.82
CABIN	6.26	3.52	JEWEL	6.72	5.48	SIDEWALK	5.44	4.35
CABINET	5.38	4.40	JOINT	5.13	4.85	SIDING	5.16	4.42
CABLE	5.54	4.84	JOKER	5.33	5.79	SIGN	5.43	4.79
CABOOSE	5.37	4.93	JOURNAL	5.73	4.37	SIGNATURE	5.60	4.68
CACTUS	4.82	5.49	JUDGE	4.75	6.17	SILK	6.72	3.77
CAFE	6.41	4.43	JUG	5.24	4.29	SILVERWARE	5.47	4.39
CAFETERIA	5.44	5.12	JUGGLER	5.89	5.57	SINK	4.94	4.56
CAGE	3.54	6.04	JUNGLE	5.48	5.87	SIREN	3.98	7.13
CAKE	7.28	4.98	JUPITER	6.05	5.28	SIRLOIN	6.33	5.36
CALCULATOR	5.41	4.72	JURY	4.53	6.10	SISTER	6.52	4.43
CALENDAR	5.50	4.59	JUVENILE	4.58	5.35	SKATE	5.92	5.45
CALF	5.84	4.00	KANGAROO	6.22	5.16	SKELETON	3.87	6.18
CAMEL	5.36	4.66	KEEPER	5.64	4.74	SKETCH	5.81	4.53
CAMERA	6.35	5.27	KEG	5.64	5.39	SKI	5.87	5.60
CAN	5.20	4.51	KETCHUP	5.97	4.63	SKILLET	5.63	4.95
CANAL	5.39	4.49	KETTLE	5.57	4.48	SKIN	5.72	5.02
CANARY	6.26	4.33	KEY	5.68	4.90	SKIRT	6.18	5.41
CANDIDATE	4.85	5.44	KEYBOARD	5.89	5.01	SKULL	3.98	6.21
CANDLE	6.31	3.80	KID	6.01	5.17	SKUNK	3.38	6.38
CANDY	7.14	5.35	KIDNEY	4.82	5.16	SKYSCRAPER	5.51	5.90
CANE	4.65	4.68	KING	5.58	5.77	SLACKS	5.33	4.31
CANNON	4.38	6.57	KITCHEN	6.18	4.54	SLEEVE	5.32	4.24
CANOE	5.98	4.22	KITE	6.43	4.40	SLEIGH	6.15	4.73
CANVAS	5.77	4.22	KITTEN	7.59	4.01	SLIDE	6.24	4.92
CANYON	5.98	4.64	KIWI	6.43	4.46	SLIME	2.97	5.91
CAP	5.41	4.33	KLEENEX	5.16	4.27	SLOPE	5.14	4.71
CAPE	5.65	4.58	KNAPSACK	5.48	4.40	SLUG	3.45	5.06
CAPITAL	5.42	5.28	KNEE	5.19	4.77	SMOG	2.70	5.70
CAPTAIN	5.54	5.78	KNIFE	4.18	6.64	SNACK	6.68	4.95

CAPTIVE	2.90	7.00	KNIGHT	6.12	5.83	SNAIL	4.49	3.93
CAR	6.02	5.66	KNOB	5.13	4.44	SNAKE	3.64	6.89
CARAVAN	5.35	4.96	KNOT	4.93	4.93	SNEAKER	5.76	4.70
CARD	5.65	4.28	KNUCKLE	4.76	5.20	SNOB	2.77	6.09
CARDINAL	6.14	4.26	LABEL	5.09	4.46	SNORKEL	5.72	5.12
CARNIVAL	6.75	6.67	LABYRINTH	5.18	6.21	SOAP	6.08	4.14
CARPENTER	5.59	4.93	LACE	6.30	4.26	SOCIETY	5.28	5.67
CARPET	5.58	4.01	LADDER	5.31	4.90	SOCK	5.32	4.06
CARRIAGE	5.67	4.41	LADY	6.65	5.15	SOCKET	4.98	4.87
CARROT	5.97	4.31	LAGOON	6.20	3.80	SODA	6.21	5.10
CART	5.32	4.54	LAKE	6.85	3.38	SOFA	6.18	3.25
CARTON	5.10	4.49	LAMB	6.31	3.40	SOFTBALL	5.59	5.01
CASH	7.15	6.37	LAMP	5.65	4.20	SOLDIER	5.22	6.59
CASHEW	6.29	4.47	LANDSCAPE	6.41	3.42	SPACE	6.39	5.03
CASHIER	5.47	4.96	LAPEL	5.28	4.45	SPAGHETTI	6.67	4.68
CASKET	2.73	6.22	LASER	5.61	6.17	SPARROW	6.24	4.26
CASTLE	6.31	5.59	LASH	4.06	5.62	SPATULA	5.28	4.35
CAT	6.60	4.29	LAUNDRY	4.57	4.77	SPHINX	5.83	5.28
CATCHER	5.39	5.02	LAVA	4.32	6.61	SPICE	6.17	5.52
CATERPILLAR	5.35	4.39	LAWN	6.05	3.42	SPIDER	3.04	6.95
CATHEDRAL	5.75	4.16	LAWYER	4.16	6.19	SPINACH	5.36	4.42
CATTLE	5.35	4.60	LEADER	5.81	5.78	SPINE	5.09	5.18
CAULIFLOWER	4.92	4.39	LEAF	6.02	3.53	SPIT	2.94	6.03
CAVE	5.08	5.27	LEG	5.49	4.69	SPONGE	5.19	4.13
CAVITY	2.72	6.40	LEMON	5.88	4.84	SPOOL	5.18	4.21
CEILING	5.30	4.20	LENS	5.54	4.46	SPOON	5.64	4.21
CELERY	5.24	4.29	LEOPARD	5.86	6.23	SPOUSE	6.82	5.02
CELLAR	4.71	4.73	LETTER	5.72	4.72	SPRINKLE	6.22	4.45
CELLO	6.02	4.05	LETTUCE	5.81	4.16	SPY	3.98	6.39
CEMETERY	3.05	5.70	LEVER	5.16	4.61	SQUID	4.40	5.62
CENT	5.52	4.66	LIBRARY	6.80	3.05	SQUIRREL	6.04	4.76
CERAMICS	5.79	4.36	LID	5.19	4.29	STABLE	5.75	3.84
CEREAL	6.31	4.12	LIEUTENANT	4.92	6.06	STADIUM	5.79	6.01
CHAIN	4.54	5.29	LIGHTER	5.26	5.53	STAFF	5.22	5.04
CHAIR	5.63	4.05	LIGHTNING	4.92	6.81	STAGE	5.55	5.44
CHAIRPERSON	4.84	4.92	LILY	6.85	3.38	STAIRS	5.10	5.00
CHALK	5.10	4.22	LIMB	5.05	4.90	STAKE	4.59	5.41
CHAMBER	5.01	4.96	LIME	6.03	4.76	STALLION	6.18	5.80
CHAMPAGNE	6.33	5.41	LIMOUSINE	5.97	5.46	STAMP	5.33	4.53
CHAMPION	6.78	6.09	LINEN	5.90	3.63	STAPLE	5.07	4.80
CHAPEL	5.59	3.83	LINT	4.12	4.29	STAPLER	5.18	4.80
CHARCOAL	5.16	4.74	LION	5.77	6.78	STAR	6.93	4.98
CHART	5.38	4.65	LIP	5.73	5.07	STATUE	5.70	4.43
CHAUFFEUR	5.50	4.68	LIPSTICK	5.71	5.21	STEAM	5.47	4.93
CHECK	5.64	5.50	LIST	5.42	4.50	STEM	5.33	4.30
CHECKERS	5.96	4.40	LITERATURE	6.60	4.64	STEP	5.29	4.61
CHEDDAR	6.40	4.68	LITTER	3.18	5.60	STEREO	6.32	5.33
CHEEK	5.58	4.61	LIVER	4.16	5.08	STETHOSCOPE	4.89	5.49
CHEERLEADER	5.97	6.19	LIZARD	4.81	5.59	STEW	5.91	4.35
CHEESE	6.54	4.48	LOAF	5.69	4.11	STEWARDESS	5.69	5.12
CHEF	6.31	4.96	LOBBY	5.24	4.37	STICKER	5.60	4.61
CHEMICAL	4.19	6.01	LOBSTER	5.69	5.13	STOCKING	5.59	4.73
CHEMIST	5.49	5.49	LOCK	4.91	5.07	STOMACH	4.82	5.09
CHERRY	6.77	4.83	LODGE	5.93	3.78	STONE	5.27	4.37
CHESS	5.75	4.25	LOFT	5.98	4.08	STOOL	4.70	4.47
CHEST	5.65	5.03	LOG	5.16	4.06	STORE	5.82	5.05
CHICK	6.23	4.87	LOLLIPOP	6.78	4.57	STOVE	5.62	5.03
CHICKEN	6.14	4.74	LONDON	6.43	5.70	STRANGER	4.02	6.22
CHIEF	5.35	5.57	LOOP	5.40	4.49	STRAW	5.31	4.14
CHILD	6.21	5.02	LOUNGE	6.16	3.08	STRAWBERRY	7.16	4.32

CHIME	6.02	4.48	LOVER	7.74	6.47	STREAM	6.52	3.25
CHIMNEY	5.31	4.43	LUGGAGE	5.32	4.84	STREET	5.40	5.03
CHIMPANZEE	5.83	6.05	LUMBER	5.36	4.61	STRING	5.38	4.46
CHIP	5.62	4.76	LUNCH	6.72	4.62	STUDENT	5.87	5.19
CHIPMUNK	6.20	4.65	LUNG	5.31	5.05	STUMP	4.38	4.76
CHISEL	4.95	5.30	MACARONI	6.33	4.39	STY	3.15	5.36
CHOCOLATE	7.52	5.28	MACHINE	5.36	5.39	SUBMARINE	5.41	5.44
CHURCH	4.86	4.14	MAGAZINE	5.65	4.59	SUBURB	5.49	4.18
CIGAR	3.81	5.06	MAGICIAN	6.18	5.85	SUBWAY	5.29	5.60
CIGARETTE	3.00	5.90	MAGNET	5.50	4.94	SUGAR	6.66	5.20
CINNAMON	6.81	4.75	MAID	5.41	4.60	SUIT	5.73	4.89
CIRCUS	6.03	6.25	MAILBOX	5.43	4.72	SUITCASE	5.36	4.93
CITIZEN	5.76	4.91	MAILMAN	5.66	4.92	SUITE	6.10	4.18
CITRUS	6.56	4.93	MAJOR	5.41	5.51	SUMMIT	5.86	5.37
CITY	5.80	6.16	MALL	5.71	5.56	SUN	7.15	4.71
CLAM	4.95	4.23	MAMMAL	6.16	4.85	SUNRISE	7.56	3.50
CLAMP	4.51	5.23	MAN	6.10	5.30	SUNSET	7.64	2.75
CLARINET	5.80	4.57	MANAGER	4.97	5.60	SUPERMARKET	5.87	5.23
CLASS	5.50	5.05	MANSION	6.22	5.56	SUPERVISOR	4.61	5.88
CLAW	4.26	6.07	MAP	5.89	4.92	SUPPER	6.61	4.67
CLAY	5.49	4.13	MAPLE	6.43	4.03	SURF	6.36	4.79
CLERK	5.29	4.62	MARBLE	5.89	4.16	SURGEON	5.04	6.41
CLIFF	4.64	6.38	MARGARINE	4.93	4.46	SURVEY	5.52	5.02
CLIMBER	5.52	5.61	MARINE	5.78	5.61	SUSPECT	3.17	6.63
CLIPPERS	4.94	5.06	MARKER	5.44	4.63	SWAMP	3.95	4.99
CLOCK	5.52	4.60	MARKET	5.66	5.30	SWAN	6.64	3.61
CLOSET	5.27	4.30	MARROW	4.72	5.14	SWATTER	4.05	5.58
CLOTHES	6.03	4.55	MARS	6.01	5.48	SWEATER	5.86	3.84
CLOUD	6.46	2.78	MARSH	4.77	4.23	SWIMMER	6.01	4.96
CLOVE	5.45	4.14	MASCARA	5.41	4.78	SWING	6.37	4.62
CLOWN	4.91	5.96	MASK	4.85	5.43	SWITCH	5.05	4.98
COACH	5.68	5.37	MAT	5.09	4.15	SWORD	5.07	6.58
COAL	4.45	4.91	MATCH	5.30	5.23	SYRINGE	3.19	6.75
COAT	5.70	4.23	MATTRESS	6.05	3.33	SYRUP	6.21	4.37
COB	5.15	4.39	MAYONNAISE	5.12	4.55	TABLE	5.58	4.21
COBBLER	6.15	4.55	MEADOW	6.98	2.69	TABLET	5.89	4.71
COBRA	3.45	7.33	MEAL	6.74	4.73	TACK	4.33	5.14
COBWEB	3.49	5.13	MEAT	5.90	5.40	TAG	5.11	4.70
COCKTAIL	6.06	5.17	MECHANIC	5.17	5.52	TAIL	5.30	4.79
COCOON	5.17	3.84	MEDAL	6.15	5.54	TANGERINE	6.40	4.62
COD	5.01	4.44	MEDICINE	5.45	5.55	TANK	4.55	6.10
COFFEE	6.70	5.61	MERMAID	6.26	5.08	TAPE	5.27	4.52
COFFIN	2.53	6.24	MESSAGE	5.67	5.21	TAPIOCA	5.10	4.43
COIN	6.02	5.02	METEOR	5.16	6.50	TAR	3.67	4.96
COLESLAW	5.08	4.44	MICROPHONE	5.45	5.29	TART	5.59	5.37
COLLAR	4.97	4.48	MICROSCOPE	5.61	5.00	TAVERN	5.74	5.16
COLLEGE	6.21	5.64	MICROWAVE	5.63	4.99	TAXI	5.17	5.33
COLOGNE	5.70	5.11	MILDEW	2.61	5.73	TEA	6.47	3.54
COLONEL	4.99	5.61	MILITARY	4.75	6.75	TEACHER	6.11	5.34
COLT	5.93	4.97	MILK	6.04	3.99	TEAM	6.17	5.27
COLUMN	5.31	4.52	MINER	5.01	5.29	TEAPOT	6.00	3.82
COMB	5.33	4.00	MINK	5.18	5.04	TECHNICIAN	5.43	5.12
COMEDIAN	6.82	6.00	MINT	6.32	4.63	TEENAGER	5.05	5.67
COMET	5.96	6.20	MIRROR	5.60	4.88	TELEPHONE	5.70	5.32
COMMANDER	5.01	6.22	MISSILE	3.22	7.07	TELESCOPE	6.21	5.16
COMMITTEE	4.86	5.00	MISTER	5.35	4.72	TELEVISION	6.33	5.49
COMMUNITY	6.32	4.61	MITTEN	5.93	3.90	TEMPLE	5.64	4.24
COMPANION	6.78	4.42	MOAT	4.95	4.68	TENT	5.82	4.29
COMPASS	5.62	4.80	MOB	3.14	6.88	TERMINAL	4.22	5.64
COMPUTER	6.81	5.57	MOLECULE	5.47	4.92	TERMITE	2.47	6.36

CONCERT	6.74	6.36	MONARCH	5.16	5.49	TERRITORY	5.09	5.27
CONCRETE	4.91	4.61	MONASTERY	5.13	3.40	THERMOMETER	5.13	5.15
CONDUCTOR	5.50	5.20	MONEY	6.96	6.49	THESAURUS	5.69	4.70
CONE	5.50	4.46	MONGOOSE	5.12	5.44	THICKET	4.64	4.91
CONSOLE	5.71	4.28	MONK	5.28	3.58	THIEF	2.46	7.03
CONSUMER	5.27	5.13	MONKEY	6.15	5.63	THIGH	5.39	4.95
CONTAINER	5.42	4.43	MONSTER	3.10	7.25	THIMBLE	5.19	4.20
CONTINENT	5.66	4.87	MONUMENT	5.94	4.62	THORN	3.44	6.24
CONTRACT	4.77	5.38	MOON	6.86	3.67	THREAD	5.43	4.15
CONTRACTOR	5.01	5.20	MOOSE	5.67	4.99	THRONE	5.57	5.64
CONVENT	4.81	3.80	MOP	4.51	4.60	THUMB	5.38	4.42
CONVICT	2.39	7.14	MOSQUITO	2.40	6.48	TICK	2.74	6.20
COOK	6.32	4.89	MOSS	4.99	3.62	TICKET	4.80	5.63
COOKBOOK	6.22	4.24	MOTEL	5.20	4.86	TIDE	5.92	4.10
COOKIE	7.32	4.93	MOTH	4.12	4.94	TIE	5.31	4.44
COOLER	5.85	4.24	MOTHER	7.09	4.41	TIGER	5.93	6.94
COP	4.42	6.74	MOTOR	5.33	5.41	TILE	5.41	4.19
COPIER	5.11	4.56	MOTORCYCLE	5.54	6.20	TIMBER	5.52	4.73
CORAL	6.21	4.04	MOUNTAIN	6.52	4.47	TOAD	4.62	4.86
CORD	5.04	4.71	MOUSE	4.25	5.61	TOAST	6.09	4.21
CORK	5.25	4.36	MOUTH	5.75	5.14	TOASTER	5.75	4.63
CORN	6.00	4.22	MOVIE	6.82	5.34	TOE	4.97	4.52
CORPORATION	4.07	5.58	MOWER	4.84	5.06	TOENAIL	4.07	5.11
COSTUME	5.87	5.28	MUFFIN	6.72	4.24	TOILET	4.11	4.84
COTTAGE	6.29	3.42	MUG	5.50	4.33	TOMATO	6.19	4.49
COTTON	6.19	3.50	MULE	5.18	4.74	TOMB	3.30	5.83
COUCH	6.05	3.31	MUMMY	4.25	5.71	TOMBSTONE	3.12	5.65
COUGAR	5.61	6.64	MUSEUM	6.50	4.22	TONGUE	5.41	5.09
COUNTRY	6.12	4.37	MUSHROOM	5.22	4.49	TOOL	5.52	5.28
COUNTY	5.48	4.46	MUSTARD	5.17	4.66	TOOTH	5.23	5.19
COURSE	5.31	4.84	NAIL	4.78	5.14	TOOTHBRUSH	5.70	4.41
COURT	4.07	6.19	NAPKIN	5.55	4.14	TOOTHPASTE	5.78	4.54
COUSIN	6.21	4.59	NAVIGATOR	5.45	5.34	TORCH	5.07	6.12
COW	5.66	4.07	NECK	5.37	4.86	TORNADO	2.86	7.72
COWARD	2.81	5.88	NECKLACE	6.30	5.05	TORTOISE	5.95	3.52
COWBOY	5.81	5.65	NEEDLE	3.83	6.05	TOTE	5.29	4.46
COYOTE	4.70	6.20	NEPHEW	6.33	4.49	TOURIST	5.40	5.24
CRAB	5.24	5.15	NEPTUNE	5.94	5.10	TOWEL	5.76	3.94
CRACKER	5.78	4.52	NERVE	4.53	5.93	TOWER	5.59	5.31
CRADLE	5.76	3.60	NEST	5.63	3.58	TOWN	5.83	4.80
CRATER	4.55	5.49	NET	5.18	4.93	TOY	6.82	5.25
CRAYON	6.23	4.27	NEUTRON	5.41	5.06	TRACTOR	5.36	4.95
CREAM	6.08	4.23	NEWSPAPER	5.49	4.70	TRAIN	5.95	5.40
CREATURE	4.71	5.95	NEWSSTAND	5.33	4.74	TRAITOR	2.50	7.04
CREEK	6.37	3.31	NICKEL	5.77	4.79	TRANSPLANT	4.73	6.03
CREVICE	4.31	5.16	NICOTINE	3.08	5.79	TRASH	3.07	5.43
CREW	5.49	5.01	NIECE	6.38	4.46	TRAY	5.20	4.54
CRIB	5.66	4.10	NIGHTGOWN	5.81	4.31	TREAD	5.12	4.80
CRICKET	4.77	4.44	NITROGEN	5.04	5.20	TREASURE	7.33	6.42
CRIMINAL	2.40	7.22	NOMAD	5.20	5.14	TREAT	7.06	5.39
CRITIC	3.80	6.08	NOOSE	2.63	6.87	TREE	6.64	3.44
CROCODILE	4.16	6.86	NOSE	5.35	4.65	TRENCH	4.16	5.40
CROOK	2.51	6.78	NOTE	5.62	4.59	TRIANGLE	5.41	4.59
CROSS	5.26	4.81	NOTEBOOK	5.79	4.42	TRIBE	5.47	5.50
CROW	4.61	5.43	NOVEL	6.45	4.39	TRICYCLE	5.60	4.65
CROWN	5.93	5.42	NUCLEUS	5.47	4.88	TRIGGER	4.08	6.70
CRUMB	4.64	4.38	NUN	5.18	3.68	TROMBONE	5.35	5.20
CRUTCH	3.96	5.43	NURSE	6.14	5.20	TROPHY	6.53	5.78
CRYSTAL	6.43	4.96	NURSERY	6.09	4.08	TROUSERS	5.38	4.65
CUB	6.24	4.59	NUT	5.78	4.73	TROUT	5.38	4.52

CUBE	5.30	4.29	OAR	5.40	4.29	TRUCK	5.54	5.34
CUCUMBER	5.82	4.28	OATMEAL	5.88	3.75	TRUMPET	5.74	5.68
CUE	5.23	4.80	OATS	5.90	3.87	TUB	5.52	3.52
CUFF	4.65	5.05	OBOE	5.42	4.36	TUBA	5.30	5.02
CUP	5.45	4.27	OCEAN	7.06	3.36	TUBE	5.06	4.55
CUPBOARD	5.43	4.12	OCTOPUS	5.17	5.66	TULIP	6.82	3.39
CURB	4.83	4.54	OFFICE	4.94	4.95	TUNA	5.40	4.76
CURTAIN	5.54	4.12	OFFICER	4.79	6.44	TUNNEL	5.14	5.32
CUSHION	6.27	3.45	OINTMENT	4.68	4.77	TURKEY	6.05	4.66
CUSTARD	5.75	4.34	OLIVE	5.39	4.52	TURNIP	4.57	4.12
CUSTOMER	5.42	5.22	OMELET	6.37	4.61	TURTLE	6.23	3.62
CYCLONE	3.44	7.34	ONION	5.21	4.98	TUSK	4.92	5.26
CYLINDER	5.22	4.63	OPERA	5.58	4.58	TUTU	5.53	4.92
DAD	6.85	4.73	OPERATOR	5.32	5.10	TUXEDO	5.96	5.34
DAGGER	3.88	6.89	ORANGE	6.65	4.75	TWEEZERS	4.78	5.22
DAISY	7.01	3.36	ORCHESTRA	6.38	4.87	TWIG	5.27	4.17
DAM	5.15	4.96	ORCHID	6.88	3.58	TWIN	5.86	4.88
DANCER	6.31	5.73	OREGANO	6.07	4.29	TWINE	5.26	4.32
DANDELION	5.82	3.61	ORGAN	5.24	5.06	TWISTER	3.64	6.97
DANDRUFF	2.81	5.47	ORNAMENT	6.02	4.70	TYPEWRITER	5.49	4.68
DART	4.86	5.84	OTTER	6.33	4.65	TYPIST	5.37	4.74
DASHBOARD	5.39	4.83	OUTDOORS	6.84	4.12	ULCER	2.39	6.59
DAUGHTER	6.80	4.71	OUTFIT	5.59	4.80	UMBRELLA	5.59	4.51
DECK	5.68	4.01	OUTLAW	3.49	6.91	UMPIRE	4.91	5.49
DEER	6.30	4.00	OVAL	5.39	4.24	UNCLE	6.22	4.45
DELINQUENT	2.85	6.55	OVEN	5.75	4.88	UNDERWEAR	5.38	5.06
DENIM	5.85	4.33	OWL	6.22	4.23	UNICORN	6.59	4.98
DENTIST	3.52	6.91	OWNER	5.41	5.03	UNIFORM	4.90	5.15
DEODORANT	5.73	4.65	OX	5.15	4.81	UNIVERSE	6.77	5.48
DEPARTMENT	5.06	4.80	OYSTER	4.70	4.46	UNIVERSITY	6.23	5.51
DEPUTY	4.98	6.07	OZONE	4.89	5.25	UTENSIL	5.28	4.56
DESIGNER	5.88	5.09	PACKAGE	5.97	5.32	VACUUM	4.90	5.01
DESK	5.47	4.43	PAD	5.20	4.15	VAGRANT	3.43	6.04
DESSERT	7.21	5.35	PADDING	5.33	4.08	VALLEY	6.15	3.59
DETECTIVE	5.33	6.09	PADDLE	5.05	5.05	VALVE	5.21	4.70
DETERGENT	5.39	4.57	PAGE	5.40	4.36	VAMPIRE	3.93	7.14
DIAGRAM	5.30	4.68	PAIL	5.08	4.26	VAN	5.12	4.84
DIAL	5.27	4.65	PAINT	5.81	4.66	VASE	5.75	3.92
DIAMOND	6.93	5.88	PAINTER	5.97	4.68	VAULT	5.33	5.18
DIAPER	3.45	5.05	PAINTING	6.46	4.22	VEAL	4.66	5.05
DIARY	5.54	4.58	PALACE	6.35	5.39	VEGETABLE	6.17	4.18
DICE	5.53	5.31	PALM	5.69	3.81	VEHICLE	5.96	5.54
DICTATOR	2.57	6.77	PAN	5.39	4.38	VEIN	4.56	5.65
DICTIONARY	5.73	4.75	PANTHER	5.52	6.78	VELVET	6.21	3.70
DIGGER	4.94	5.14	PANTS	5.71	4.59	VENT	5.14	4.86
DILL	5.09	4.49	PAPER	5.75	4.29	VENUS	6.12	5.29
DIME	5.75	4.95	PARCEL	5.65	4.81	VESSEL	5.46	5.09
DINER	6.26	4.72	PARENT	6.42	4.71	VEST	5.17	4.39
DINNER	6.83	4.76	PARIS	6.69	5.84	VET	5.84	5.49
DINOSAUR	5.87	6.32	PARROT	6.15	5.30	VETERAN	5.98	5.55
DIPLOMA	6.69	5.51	PARSLEY	5.79	4.04	VICTIM	2.77	7.11
DIRECTOR	5.29	5.54	PARTNER	6.67	4.87	VICTOR	5.92	5.88
DIRT	3.99	4.89	PARTY	6.74	6.78	VIDEO	6.03	5.36
DISC	5.36	4.58	PASSAGE	5.58	4.57	VIKING	5.10	6.11
DISH	5.61	4.29	PASSENGER	5.50	4.78	VILLAGE	5.88	4.43
DISHWASHER	5.52	4.69	PASTA	6.76	4.61	VILLAIN	2.60	7.01
DIVER	5.61	5.50	PASTRY	7.03	4.59	VINE	5.63	4.24
DOCK	5.61	4.12	PATH	5.81	4.01	VINEGAR	4.50	5.04
DOCTOR	5.38	6.15	PATIENT	5.03	4.79	VIOLA	6.12	4.41
DOCUMENT	5.18	4.68	PATIO	6.18	3.57	VIOLIN	6.19	4.12

DOG	7.07	4.97	PATRIOT	5.78	5.73	VIRUS	2.39	7.02
DOLL	5.71	4.01	PATROL	4.73	5.98	VISITOR	5.71	5.36
DOLLAR	6.63	6.02	PAVEMENT	5.13	4.55	VITAMIN	6.06	4.72
DOLPHIN	6.75	4.34	PAW	6.01	4.28	VOLCANO	4.31	7.02
DONKEY	5.29	4.94	PAWN	4.51	4.94	VOLLEYBALL	5.85	5.32
DONOR	6.29	5.09	PEACH	6.81	4.35	VOLUNTEER	6.49	4.76
DOOR	5.43	4.56	PEANUT	5.97	4.63	WAGON	5.44	4.67
DOORBELL	5.12	5.47	PEAR	6.33	4.21	WAIST	5.22	4.74
DORM	5.12	5.03	PEARL	6.54	4.57	WAITER	5.70	4.82
DOUGH	6.03	4.15	PEBBLE	5.39	4.07	WAITRESS	5.95	5.02
DOUGHNUT	6.86	5.05	PECAN	5.93	4.43	WALL	5.10	4.34
DOVE	6.62	3.07	PEDAL	5.39	4.82	WALLET	5.81	5.22
DRAGON	5.39	6.96	PEDESTRIAN	5.30	4.77	WALNUT	5.88	4.40
DRAWER	5.30	4.31	PELICAN	5.87	4.60	WALRUS	5.63	5.14
DRAWING	6.21	4.36	PELT	4.68	5.13	WAND	5.72	4.93
DRESS	6.09	4.66	PEN	5.58	4.69	WARDROBE	5.80	4.62
DRESSER	5.48	4.26	PENCIL	5.51	4.49	WAREHOUSE	4.97	4.78
DRILL	4.74	6.00	PENDULUM	5.20	4.57	WARRIOR	5.36	6.96
DRINK	6.50	4.73	PENGUIN	6.63	4.70	WART	2.64	5.83
DRIVER	5.67	5.54	PENNY	5.60	4.65	WASHCLOTH	5.19	4.11
DRIVEWAY	5.36	4.42	PEOPLE	5.89	5.66	WASHER	5.54	4.77
DRUG	3.69	6.20	PEPPER	5.59	5.40	WASP	2.63	6.89
DRUM	5.80	5.62	PERCH	5.46	4.39	WATER	6.92	3.80
DRYER	5.48	4.43	PERFUME	6.09	5.30	WATERFALL	7.25	3.72
DUCK	6.11	4.36	PERISCOPE	5.28	4.97	WAVE	6.45	4.28
DUMP	3.05	5.44	PERMIT	5.09	4.95	WAX	4.91	4.70
DUNE	5.43	4.05	PERSON	6.06	5.14	WEB	4.80	5.04
DUNGEON	3.03	6.93	PERSONNEL	5.18	4.67	WEED	4.26	5.12
DUST	3.55	4.72	PHILOSOPHER	6.09	4.67	WELL	5.89	3.93
DUSTPAN	4.45	4.51	PHOTO	6.33	4.73	WHALE	6.12	4.94
DWARF	4.82	4.83	PHYSICIAN	5.30	5.91	WHEAT	5.93	3.90
DYNAMITE	3.90	7.22	PIANO	6.62	4.10	WHEEL	5.68	4.79
EAGLE	6.45	5.39	PICK	5.03	5.10	WHIP	3.80	6.50
EAR	5.43	4.60	PICKLE	5.30	4.95	WHISKERS	5.77	4.43
EARRING	5.88	5.04	PICNIC	7.03	3.63	WHISTLE	5.22	5.73
EARTH	6.95	4.82	PICTURE	6.26	4.54	WICK	5.15	4.63
EDITOR	5.32	5.09	PIE	7.17	4.65	WIDOW	3.57	5.47
EDITORIAL	5.23	4.91	PIER	6.00	3.82	WIFE	6.64	5.05
EGG	5.95	4.36	PIG	4.92	5.19	WILDERNESS	6.19	5.09
EGYPT	5.62	5.84	PIGEON	4.90	4.58	WINDOW	5.92	4.23
ELBOW	5.13	4.60	PIGMENT	5.38	4.72	WINDSHIELD	5.18	4.84
ELECTRICIAN	5.45	5.37	PIKE	4.67	5.13	WINE	6.26	4.43
ELECTRON	5.49	5.24	PILL	4.49	5.29	WINGS	6.22	4.88
ELEPHANT	6.21	5.29	PILLOW	7.04	2.59	WINNER	7.09	6.37
ELEVATOR	5.38	5.12	PILOT	5.85	5.76	WIRE	5.14	4.87
ELF	5.90	5.02	PIMPLE	2.74	5.87	WITCH	3.74	6.57
ELK	5.82	4.62	PIN	4.99	5.00	WITNESS	5.09	5.74
ELM	5.89	3.77	PIPE	4.72	4.87	WOLF	5.21	6.59
EMERALD	6.84	5.30	PIRATE	4.28	6.70	WOMAN	6.94	5.45
EMPEROR	4.76	5.98	PISTOL	3.81	7.26	WORKER	5.52	5.44
EMPIRE	5.04	6.08	PISTON	4.97	5.40	WORLD	6.51	5.79
EMPLOYEE	5.34	5.02	PIT	3.88	5.70	WORM	3.76	5.27
EMPLOYER	5.13	5.73	PITCHFORK	4.05	5.86	WOUND	2.64	6.86
ENCYCLOPEDIA	5.85	4.69	PIZZA	7.37	5.55	WRENCH	4.93	5.10
ENEMY	2.48	7.28	PLAID	5.37	4.41	WRIST	5.23	4.61
ENGINE	5.49	5.67	PLANE	5.68	6.08	WRITER	6.21	4.89
ENGINEER	5.80	5.11	PLANET	6.34	5.31	XEROX	4.96	4.66
ENVELOPE	5.38	4.44	PLANT	6.39	3.85	YACHT	6.11	4.74
ERASER	5.33	4.44	PLAQUE	3.85	5.20	YARD	6.02	4.00
ESCALATOR	5.54	5.15	PLASTER	4.82	4.56	YARN	5.70	3.76

ESSAY	4.47	5.22	PLATE	5.49	4.40	YOKE	4.71	4.68
EUROPE	6.43	5.48	PLAYGROUND	6.72	5.34	YOLK	5.11	4.37
EWE	5.37	3.96	PLAZA	5.66	4.97	YOUTH	6.39	5.02
EXPERT	6.06	5.27	PLIERS	4.79	5.23	ZEBRA	6.27	4.82
EXPLOSION	3.06	7.85	PLUM	6.25	4.30	ZIPPER	5.33	4.99
EYE	5.75	4.96	PLUMBER	4.80	5.00	ZOO	6.36	5.54
EYELASH	5.65	4.61	PLUTO	5.83	4.97	ZUCCHINI	5.52	4.55