SUCCESS

The Key Elements to Mathematics Success

Student Lessons

Authors

Dr. Brian E. Enright

and

Lisa O. Schueren

Wendy S. Maldonado

Cover Design:

Lisa Greenleaf





Table of Contents Lessons

	Lesson	Student Pages
1	SOLVE - S and O	S1 - S7
2	SOLVE - L	S8 - S17
3	SOLVE - V and E	S18 - S28
4	Unit Rates	S29 - S37
5	Proportional Relationships	S38 - S47
6	Identifying the Constant of Proportionality	S48 - S56
7	Representing Proportional Relationships with Equations	S57 - S68
8	Proportional Relationships in Graphs	S69 - S81
9	Percents in Real Life Situations	S82 - S96
10	Percent of Change	S97 - S110
11	Add Integers	S111 - S124
12	Subtract Integers	S125 - S137
13	Multiply Integers	S138 - S150
14	Divide Integers	S151 - S163
15	Real World Application with Rational Numbers	S164 - S184
16	Properties of Operations with Expressions	S185 - S198
17	Writing Equivalent Expressions for Real World Applications	S199 - S211
18	One-Step Equations with Integers	S212 - S230
19	Two-Step Equations with Integers	S231 - S245
20	One and Two Step Inequalities	S246 - S263
21	All About Angles	S264 - S278
22	Scale Drawings	S279 - S294
23	Drawing and Constructing Triangles	S295 - S311
24	Plane Sections of 3-D Figures	S312 - S324
25	Circumference of a Circle	S325 - S337
26	Area of a Circle	S338 - S350
27	Real World Application Involving Area, Volume and Surface Area	S351 - S364
28	Populations and Random Sampling	S365 - S375
29	Measures of Center and Variability with Dot Plots	S376 - S391
30	Measures of Center and Variability with Box Plots	S392 - S405
31	Comparison of Measures of Center and Variability	S406 - S419
32	Introduction to Probability	S420 - S433
33	Relative Frequency	S434 - S443
34	Uniform and Non-Uniform Probability Models	S444 - S455
35	Compound Probability	S456 - S472

SOLVE Rubric

Solve	Considerations
S Underline the question(s). (1 pt) Answered the question "What is the problem asking me to find?" (2 pt)	
Total of 3 points	
All math facts are identified. (2 pts) Unnecessary facts are eliminated. (2 pts) Necessary facts are listed. (1 pt)	All facts get 2 points. Majority of facts get 1 point.
Total of 5 points	
L No numbers used. (1 pt) Written as a phrase or sentence. (2 pts) Explained in a logical, sequential order. (2 pts) Use of correct operation(s). (2 pts)	Logical, sequential order would include correct order of operations.
Total of 7 points	
W Make estimation. (2 pts) Number sentence matches plan from L. (2 pts) Computation is correct. (2 pts)	
Total of 6 points	
E Sentence matches S. (1 pt) Estimate was reasonable for the answer. (1 pt) Answer is correct. (1 pt) Written in a complete sentence. (1 pt)	Credit is given for writing the answer in a complete sentence, even if it is not the correct answer.
Total of 4 points	

PROBLEM - SOLVING STORY FRAME

Problem Writing Rubric

		Points
Characters	1 point: Has a character 2 points: Has characters and uses them in problem	
Scene	1 point: Has a general scene 2 points: Has a scene in which the action takes place	
Action (Facts)	1 point: Has basic needed facts (min 2)2 points: Includes more than 2 facts3 points: Also includes unnecessary facts	
Outcome (Question)	1 point: Has very simple question 2 points: Has more complex 1 step question 3 points: Has a multi-step question	
	Total (max 10)	
	Problem Writing Rubric	
		Points
Characters	1 point: Has a character 2 points: Has characters and uses them in problem	
Scene	1 point: Has a general scene 2 points: Has a scene in which the action takes place	
Action (Facts)	1 point: Has basic needed facts (min 2)2 points: Includes more than 2 facts3 points: Also includes unnecessary facts	
Outcome (Question)	1 point: Has very simple question 2 points: Has more complex 1 step question 3 points: Has a multi-step question	
	Total (max 10)	