PUZZLEWISE™ FOR GROWING MINDS

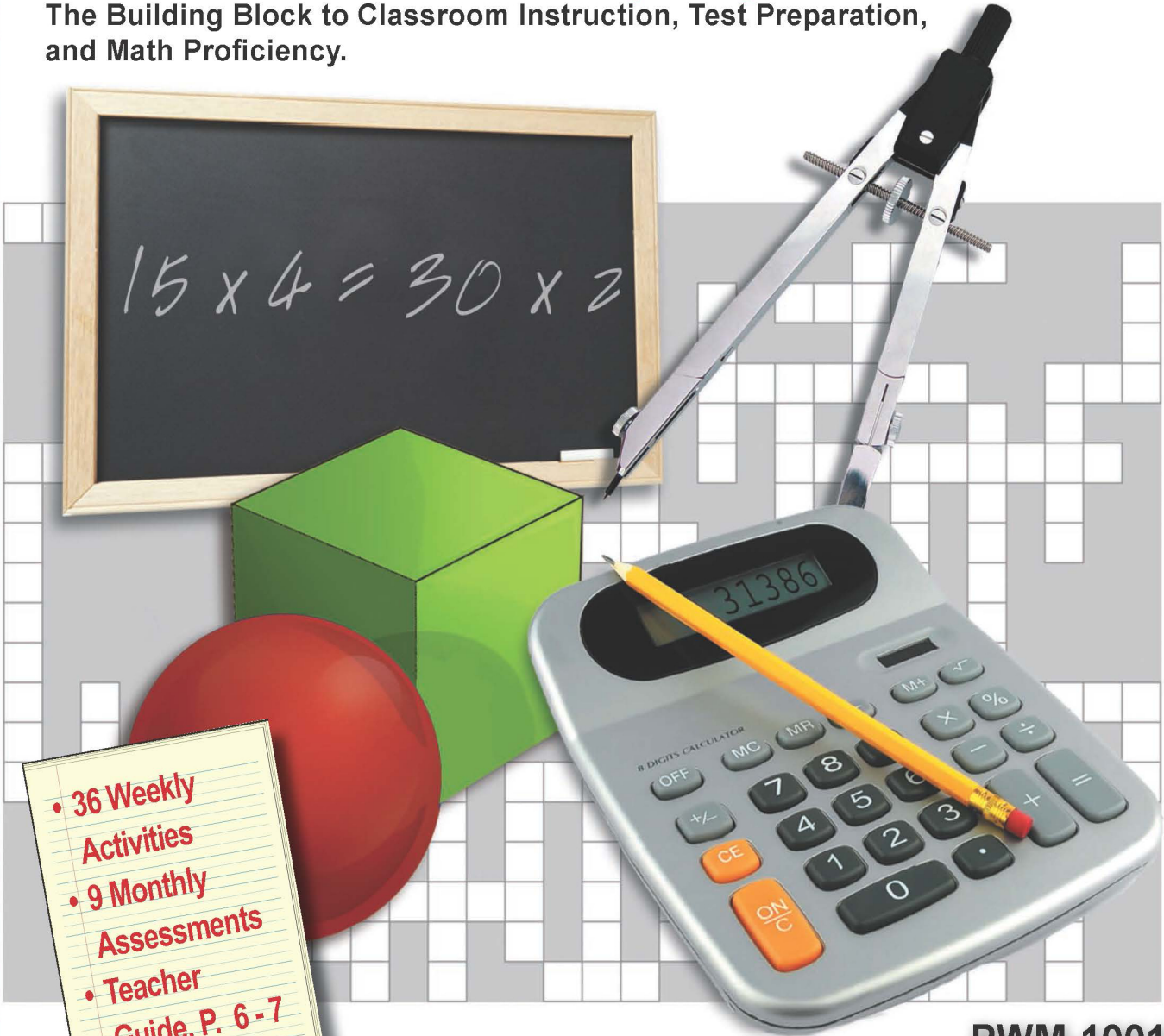
School/Home Edition

MATH

Supports **NCTM** and **state** standards.

Standards Based Math Literacy Program

The Building Block to Classroom Instruction, Test Preparation, and Math Proficiency.



- 36 Weekly Activities
- 9 Monthly Assessments
- Teacher Guide, P. 6 - 7

PWM-1001

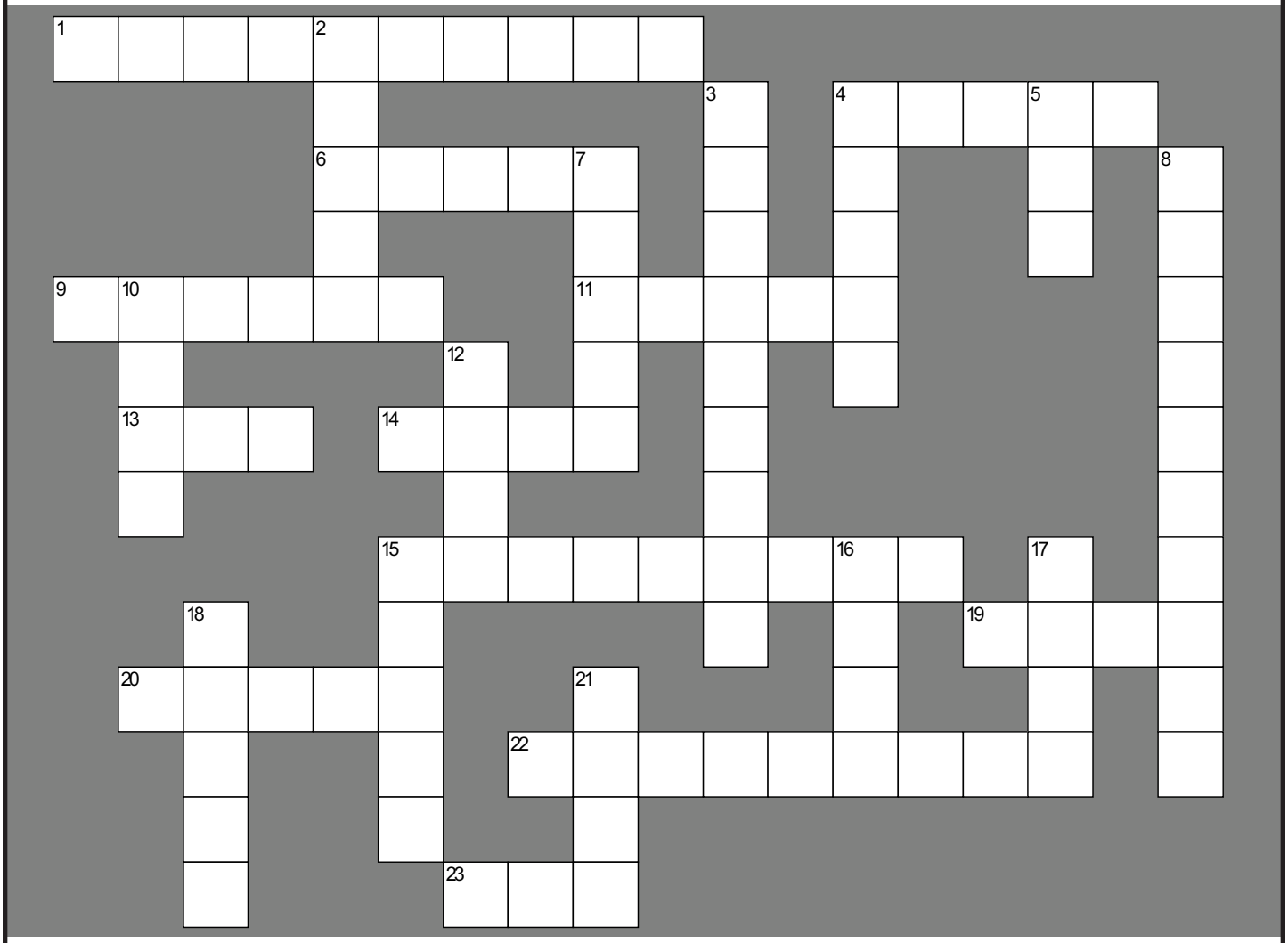
Students improve critical thinking skills and problem solving strategies.

Student Name:

Lesson 1

"What would you attempt if you knew you could not fail?"
Dr. Robert Schuller, Minister

/25



ACROSS

1 1062 – 963

4 Nickels in 25 dimes.

6 2 is a factor of 48. Right or wrong?

9 Pattern: 12, 14, 11, 13, 10, 12, 9, N.

11 A triangle can have a 170° angle. Right or wrong?

13 0.076 = 7 hundredths + N thousandths.

14 Number of children in one group of quintuplets.

15 Quadrilateral with four right angles.

19 (1,1) is translated 2 right and 3 up. New point: (3,N).

20 A triangle that has all sides the same length can have angles with different degrees. Right or wrong?

22 A number with more than one pair of factors. (P. 108.)

23 $0.25 = $N/4

DOWN

2 Number of equal sides in an equilateral triangle.

3 Same size and shape. (P. 111.)

4 Number of 2 digit numbers > or = 50.

5 Prime factorization of 12 is 2 × N × 3.

7 @ = 15. % = 5. What is @ ÷ %?

8 Number of centimeters in a meter. (P. 109.)

10 Compare: 65.2 ÷ 65.5 (more less same) 65.5 ÷ 65.2

12 Number of musicians in a quintet.

15 It is impossible to stay awake for a month. Right or wrong?

16 Compare: 98/99 (more less same) 1.

17 Compare: 8 – 1.5 (more less same) 6.

18 The area of a rectangle is 20, and the length is 4. The width of the rectangle is 6. Right or wrong?

21 Time for trip < 2 hours. 2 hours (more less same) time for trip.

Parent/Guardian signature:

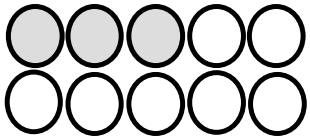
For puzzle time, return on:

1. A fraction of this group of circles is shaded.

Which of the following groups is shaded to show the fraction with the same value?

○ **A** 

○ **B** 

○ **C** 

○ **D** 

2. Trevor wants to build a fenced area in his backyard for his rabbit. For which of the following would he need to know the perimeter of the area?

○ **A** Determining how much grass will be enclosed

○ **B** Determining how much water his rabbit will need

○ **C** Determining the diameter of the food dish

○ **D** Determining how many feet of fencing are needed to go around the area

3. Look at the number pattern below:

128, 64, 32, 16, . . .

What are the next two numbers in the number pattern? Write your answer on the lines below.

The next two numbers are: _____, _____

Explain the rule you used to find the next two numbers in the pattern in the space provided below.

4. Math Vocabulary. On a separate paper, define what these words mean to you. Be as detailed as possible. Use any resources available. Equation, angle, parallel.

Lesson 2

"If you stand at all, stand tall."
King James I of England

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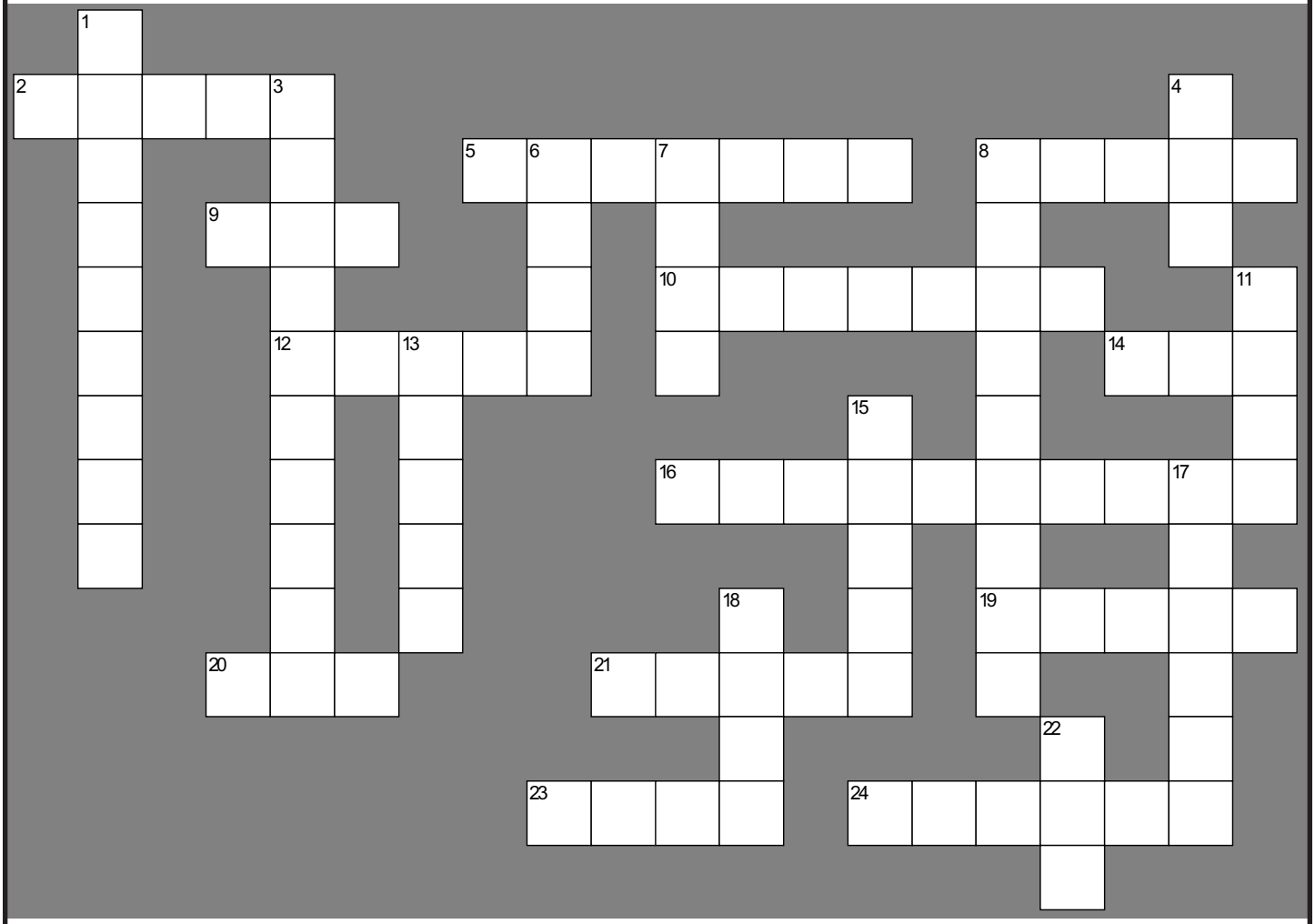


ACROSS

2 2 is a factor of 12. Right or wrong?

5 Triangle with no equal sides. (P. 110.)

8 36 = 2 × 2 × 3 × N

9 N, 5, 10, 9, 18, 17, 34, 33, 66.

10 Number of thousandths in 0.016

12 1/10 = N thirtieths.

14 Missing digit: 35 × 35 = 12 ___5

16 Which has more than two factors: 31, 39, 41, 43?

19 Right or wrong? It is impossible to walk 10 miles in one day.

20 90 minutes before 11:30 = ___ o'clock.

21 A square is translated so that all the points go up 3 and right 2. If one corner started at (4,4), that corner would end at (7,6). Right or wrong?

23 100 ÷ [], if [] = 25.

24 A right angle is N°.

DOWN

1 Type of graph using line segments. (P. 112.)

3 The product of 5 and 7.

4 30 feet = N yards.

6 A 3D shape with a circular base and a vertex.

7 Compare: 5/16 (more less same) 1/2.

8 Perimeter of a 5 × 6 rectangle.

11 Length of snake > 9 feet. Snake (more less same) 9 feet.

13 Dividing by zero is faulty. Right or wrong?

15 100÷ 9.2 is about 20. Right or wrong?

17 An obtuse angle measures > N°. (P. 110.)

18 Approximate number of hundreds in 299 + 50 + 50.

22 Events in a decathalon (Hint: "deca").

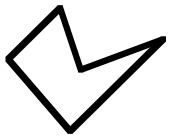
Parent/Guardian signature:

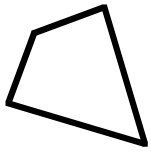
For puzzle time, return on:

1. Which of the following have at least two sides that appear to be parallel?

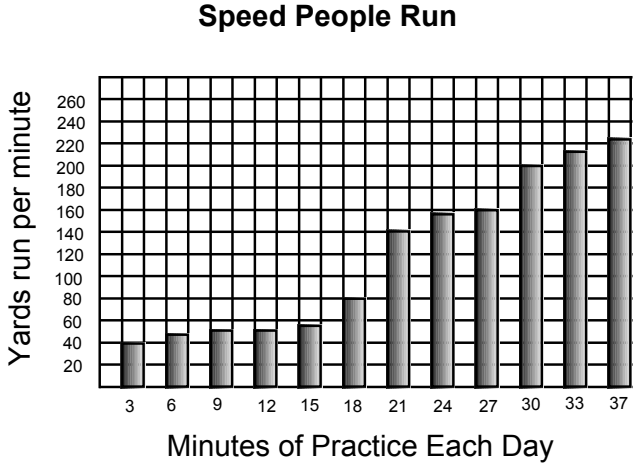
○ **A** 

○ **B** 

○ **C** 

○ **D** 

2. Abby wants to increase her running speed. What conclusions can be made from the information on the graph above?



○ **A** The number of yards run per minute goes down with practice.

○ **B** More than 18 minutes practice doesn't increase running rate.

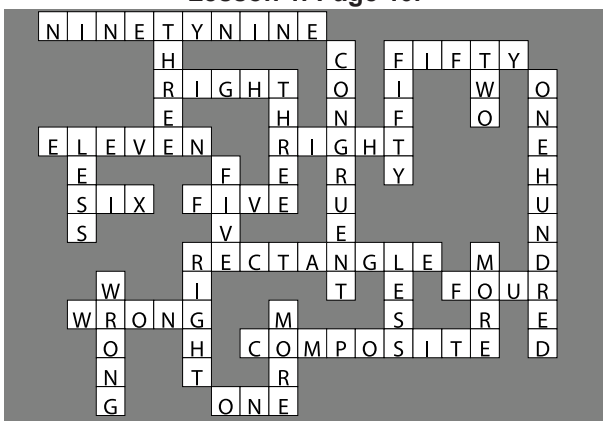
○ **C** Practicing 12 minutes a day is better than practicing 9 minutes per day.

○ **D** Overall, the speed of running increases as the number of practice minutes increases.

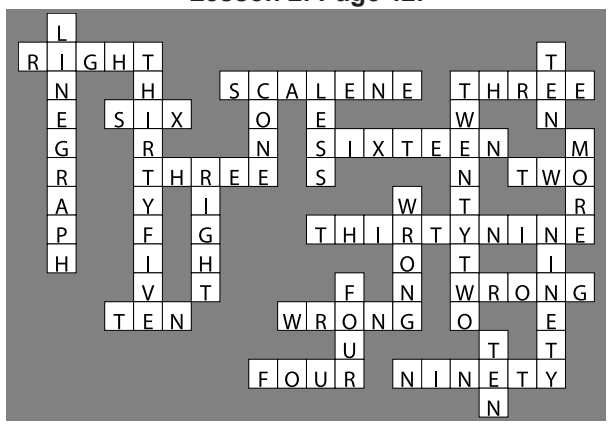
3. Ginny has a collection of 48 stuffed animals. She plans to give all of her stuffed animals to her six friends, giving each of them an equal number of stuffed animals. In the space provided below, write a number sentence that can be used to find how many stuffed animals each friend will receive.

4. Math Vocabulary. On a separate paper, define what these words mean to you. Be as detailed as possible. Use any resources available. Perimeter, numerator, centimeter.

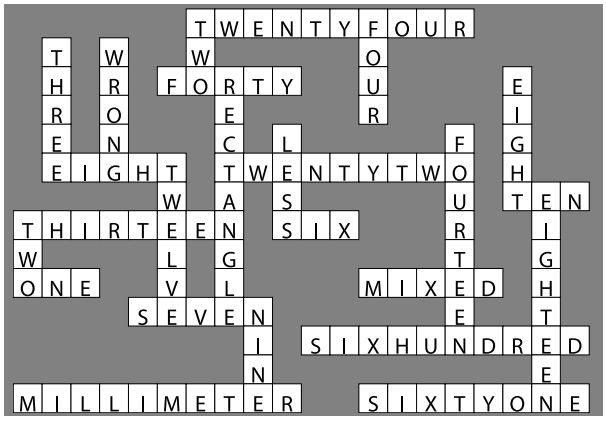
Lesson 1: Page 10.



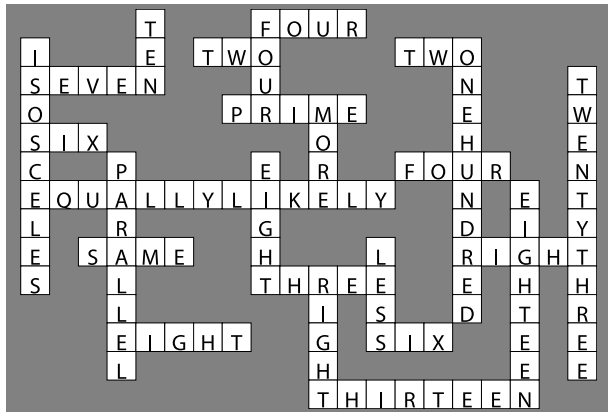
Lesson 2: Page 12.



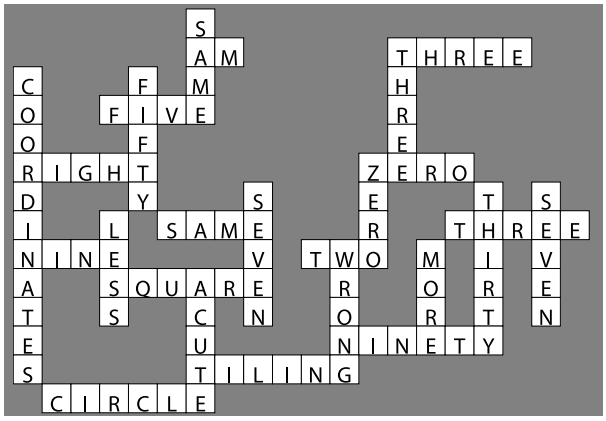
Lesson 3: Page 14.



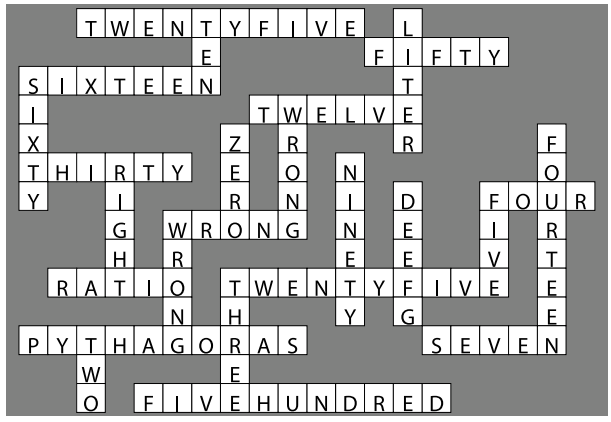
Lesson 4: Page 16.



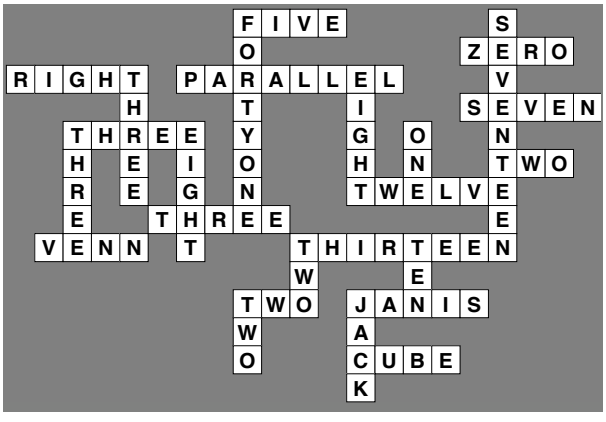
Lesson 6: Page 20.



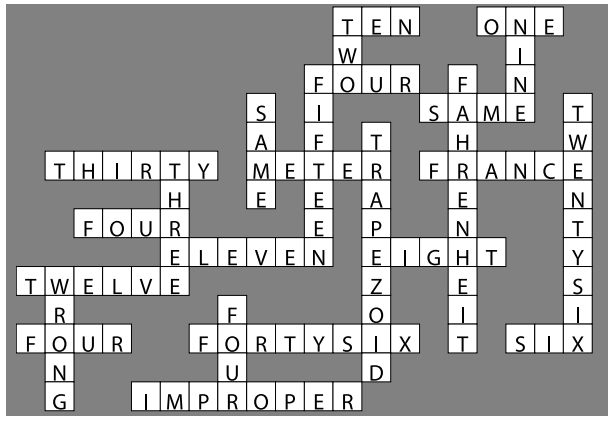
Lesson 7: Page 22.



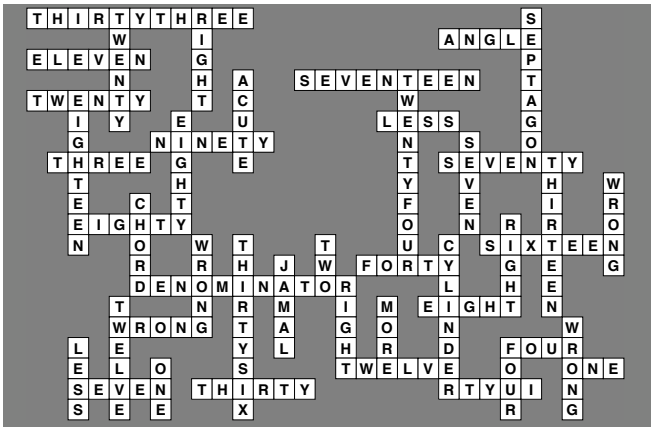
Lesson 8: Page 24.



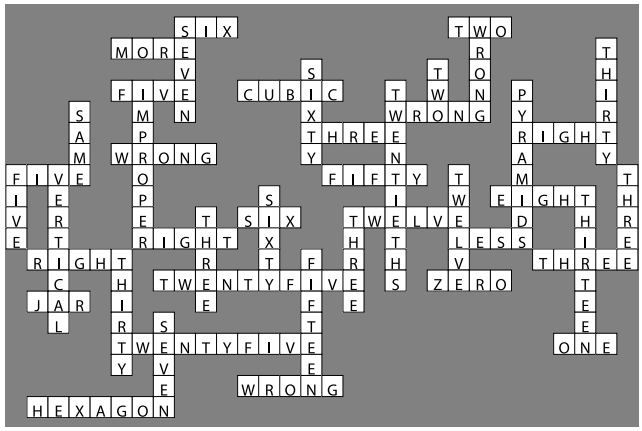
Lesson 9: Page 26.



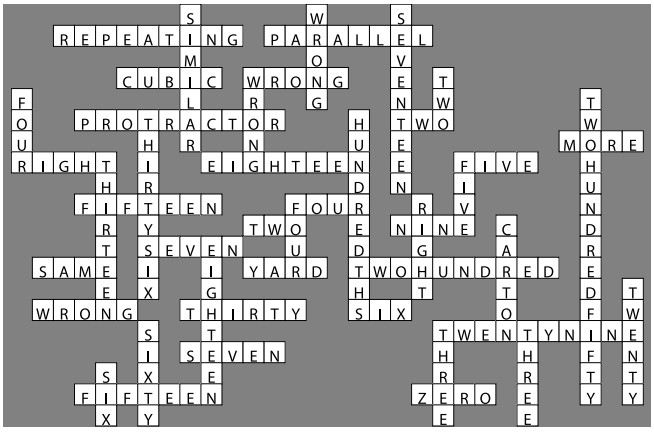
Lesson 41: Page 94.



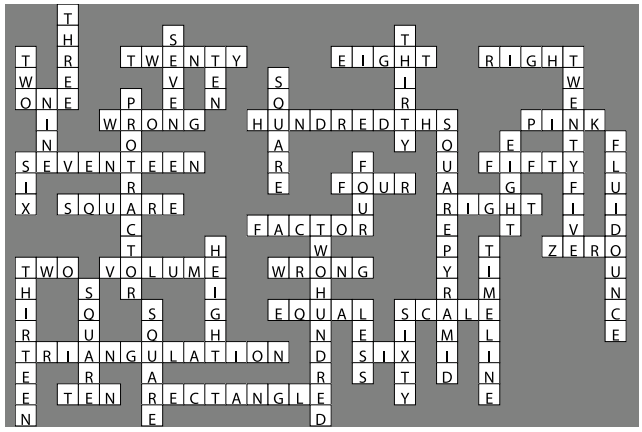
Lesson 42: Page 96.



Lesson 43: Page 98.



Lesson 44: Page 100.



Application Page Answer Keys

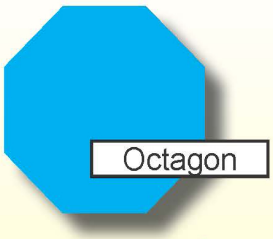
Lesson 1: P. 11. 1: A 2: D	Lesson 2: P. 13. 1: C 2: D	Lesson 3: P. 15. 1: C 2: D	Lesson 4: P. 17. 1: B 2: A	Lesson 6: P. 21. 1: D 2: B	Lesson 7: P. 23. 1: A 2: D
Lesson 8: P. 25. 1: A 2: D	Lesson 9: P. 27. 1: B 2: C	Lesson 11: P. 31. 1: A 2: D	Lesson 12: P. 33. 1: B 2: B	Lesson 13: P. 35. 1: B 2: D	Lesson 14: P. 37. 1: B 2: A
Lesson 16: P. 43. 1: C 2: A	Lesson 17: P. 45. 1: A 2: D	Lesson 18: P. 47. 1: A 2: A	Lesson 19: P. 49. 1: C 2: B	Lesson 21: P. 53. 1: D 2: D	Lesson 22: P. 55. 1: D 2: A
Lesson 23: P. 57. 1: B 2: D	Lesson 24: P. 59. 1: B 2: D	Lesson 26: P. 63. 1: C 2: D	Lesson 27: P. 65. 1: C 2: D	Lesson 28: P. 67. 1: C 2: C	Lesson 29: P. 69. 1: C 2: A
Lesson 31: P. 75. 1: C 2: B	Lesson 32: P. 77. 1: B 2: C	Lesson 33: P. 79. 1: B 2: D	Lesson 34: P. 81. 1: D 2: A	Lesson 36: P. 85. 1: C 2: B	Lesson 37: P. 87. 1: A 2: A
Lesson 38: P. 89. 1: B 2: C	Lesson 39: P. 91. 1: C 2: A	Lesson 41: P. 95. 1: C 2: D	Lesson 42: P. 97. 1: B 2: D	Lesson 43: P. 99. 1: B 2: C	Lesson 44: P.101. 1: D 2: B

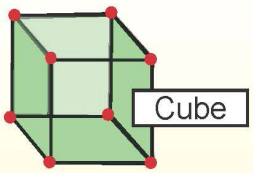
PUZZLEWISE™

MATH Level 1

Over 1,025 math skill and math literacy builders!

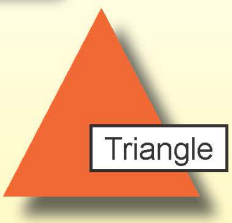
Students build skills and receive repetitive practice in national and state standards for academic success and higher scores on the state math tests.

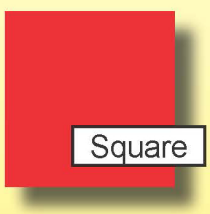


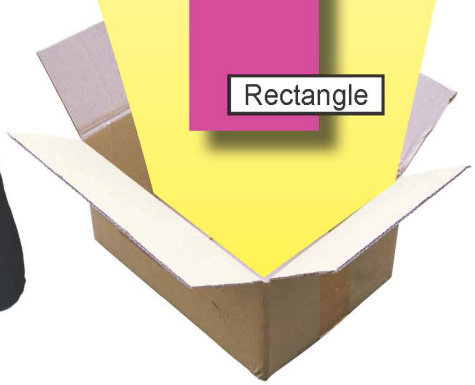


A **cube** has:

- six faces (green)
- eight vertices (red)
- twelve edges (black)







1. Three squares have how many sides total?
2. 9 sides + 4 sides - 3 sides - 6 sides = which geometric shape?
3. How many angles total in one octagon and three triangles?

Strongly Supports:

- Numbers & Operations
- Measurement
- Geometry
- Data Analysis & Probability
- Algebra
- Mathematical Communication
- Researching Skills
- Reasoning Logically
- Academic Discourse
- Critical Thinking Skills
- Problem Solving Strategies

"Truly an exceptional way to help students learn the skills necessary for success in school and become life-long learners. Fun, purposeful, and innovative!"
—Dr. Betsy Rogers
National Teacher of the Year, 2003

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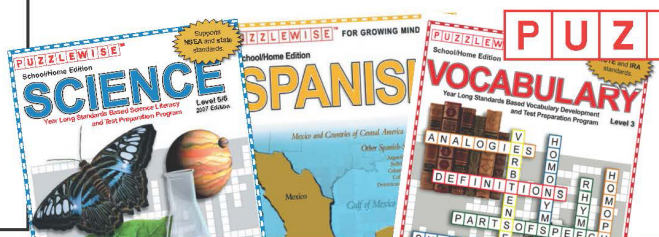

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