

PUZZLEWISE™ FOR GROWING MINDS

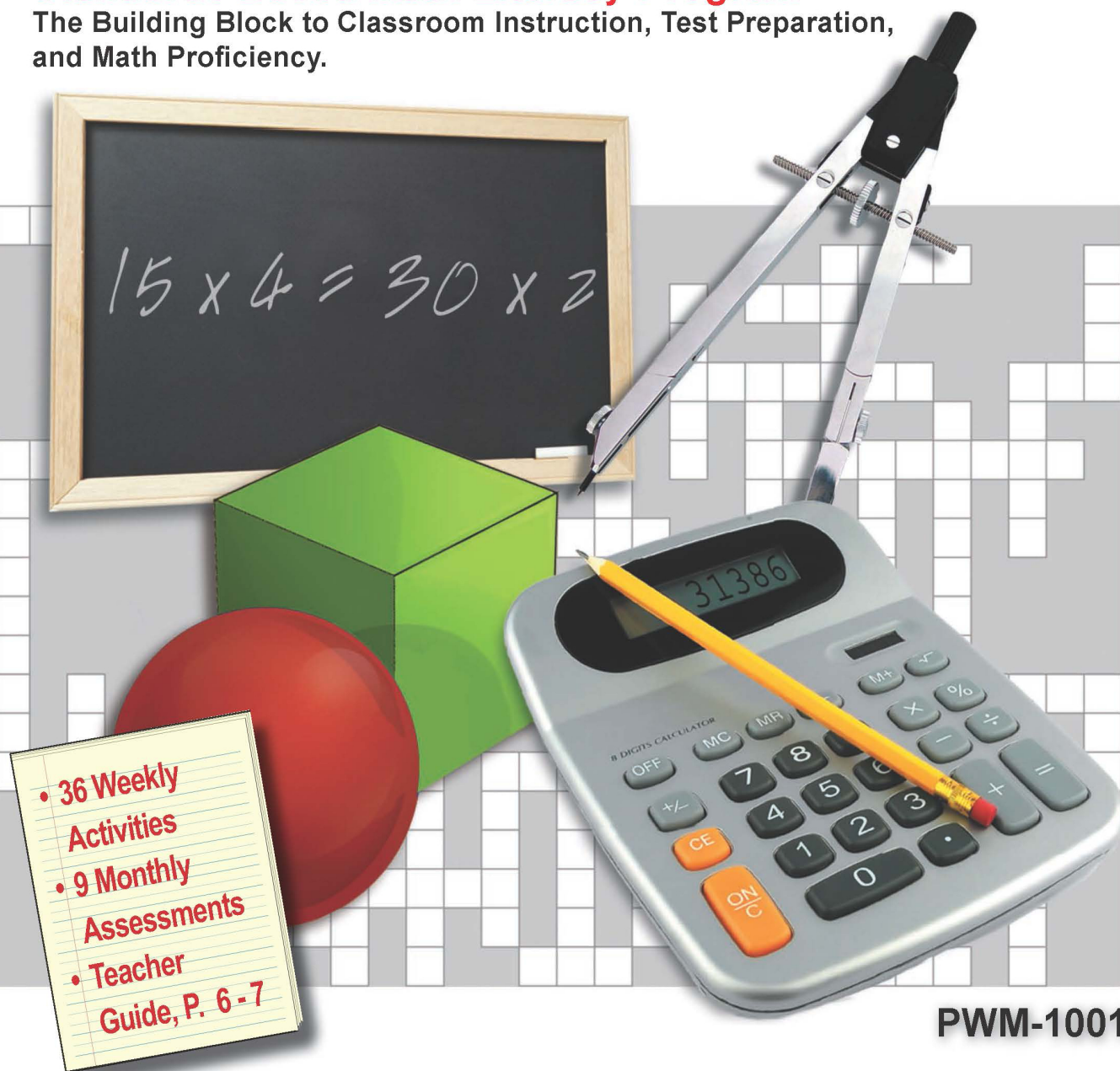
School/Home Edition

MATH

Supports
NCTM and **state**
standards.

Standards Based Math Literacy Program

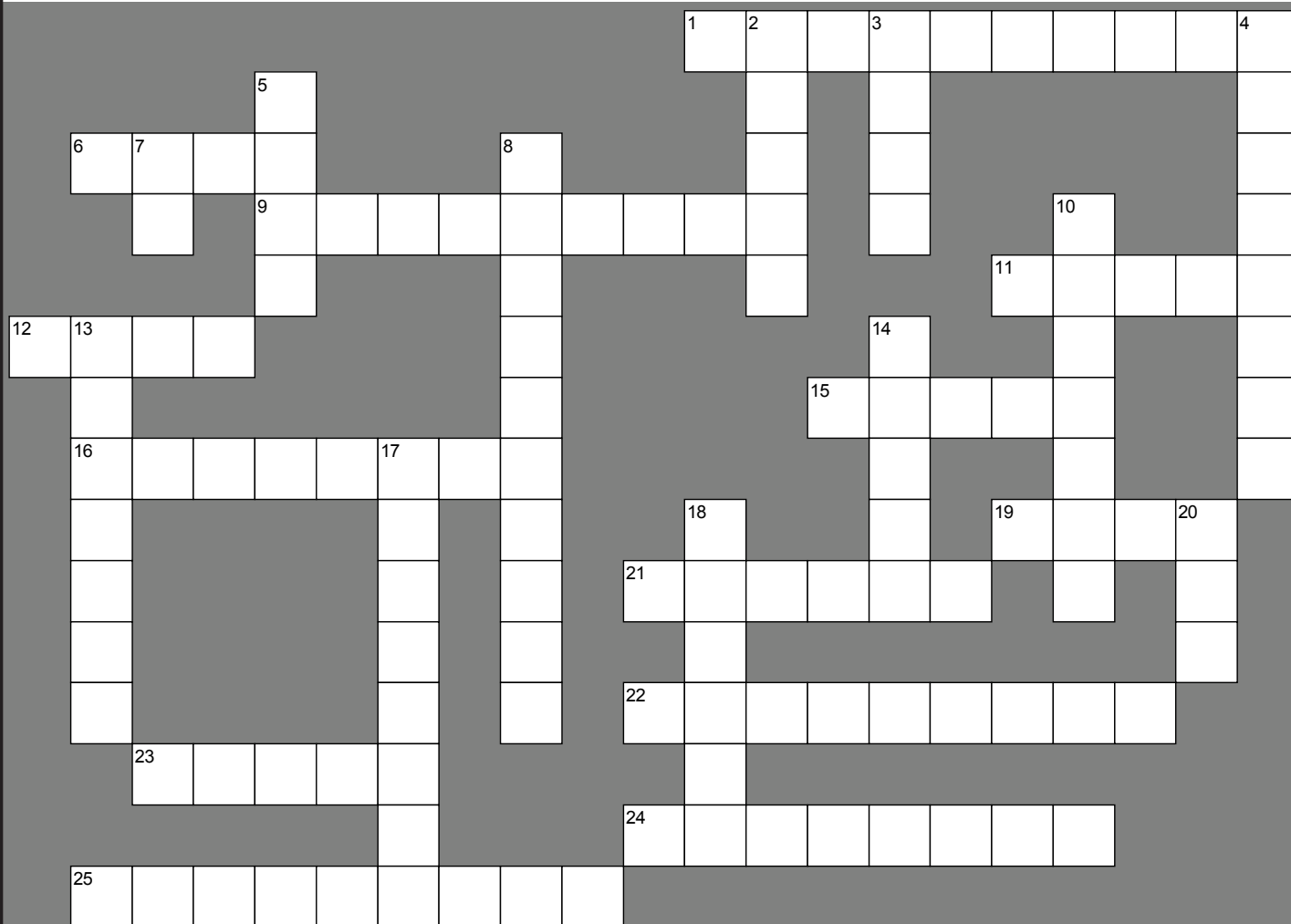
The Building Block to Classroom Instruction, Test Preparation,
and Math Proficiency.



PWM-1001

Students improve critical thinking
skills and problem solving strategies.

Student Name:



ACROSS

- 1 Rule: Multiply by 3 and subtract 5. Pattern: 5, 10, N, 70.
- 6 Compare: Area of rectangle: L = 22 and W = 5 (more less same) area of rectangle: L = 11 and W = 10.
- 9 (5,20) is translated down 3, right 10. New position is (15,N).
- 11 Right or wrong? 40 square meters could describe surface area of room.
- 12 $3 \times 6 = N + 14$
- 15 -2 is to right of -5 on number line. Right or wrong?
- 16 Pattern Machine. Input: 20, 15, 10, 7. Output: 18, N, 8, 5.
- 19 Sum of two angles of triangle is (more less same) 180° .
- 21 Pattern: 50, 60, 30, 40, 20, N, 15.
- 22 Regular pentagon is cut along diagonal to make triangle and ____.
- 23 $\frac{1}{8}$ of a half-pound. (P. 109.)

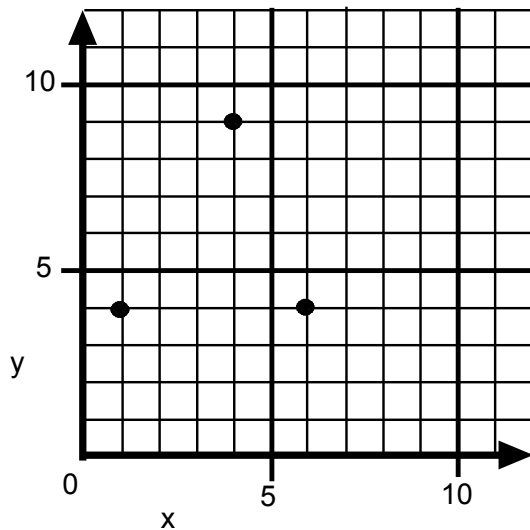
- 24 A coin is example of this 3D shape. (P. 111.)

- 25 Quadrilateral whose name literally means "right angles".

DOWN

- 2 Area of rectangle is 10, and width is 6. Length of rectangle is 4. Right or wrong?
- 3 Rectangle: area 2, width $\frac{1}{2}$, perimeter N.
- 4 Inches in a $\frac{1}{2}$ yard.
- 5 One cubic foot (more less same) one cubic meter.
- 7 Abbreviation for "morning". (P. 109.)
- 8 Quadrilateral has angles 10° , 50° , 200° , and N° .
- 10 $5y - 5$ when $y = 4$.
- 13 Stop sign shape.
- 14 Mean is N. Data is 6, 12, 6 and 8.
- 17 $N \div 6 = 3$
- 18 Heads comes up on a coin flip about N times out of 60.
- 20 If $\& = 10$, what is $60 \div \&$?

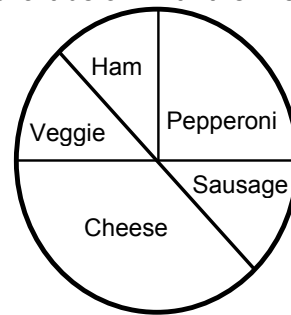
1. Rashelle has plotted three vertices of a parallelogram on this coordinate grid.



Where should she plot the fourth vertex to complete a parallelogram?

- ☐ **A** (4, 6) ☐ **B** (10, 7)
☐ **C** (9, 9) ☐ **D** (7, 8)

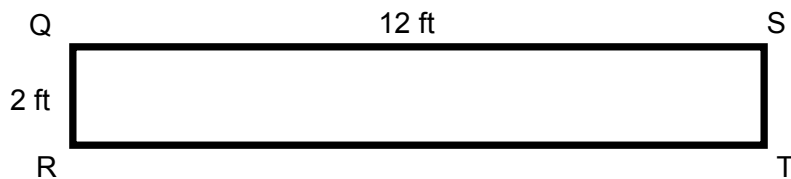
2. The students in the sixth grade at Hawks' Rise Elementary School took a survey to determine which pizza toppings were the favorites. They created the chart below with their results.



According to the chart, which pizza topping was the favorite of about 25% of the students?

- ☐ **A** Pepperoni ☐ **B** Ham
☐ **C** Sausage ☐ **D** Cheese

3. Look at rectangle $QRST$ below.

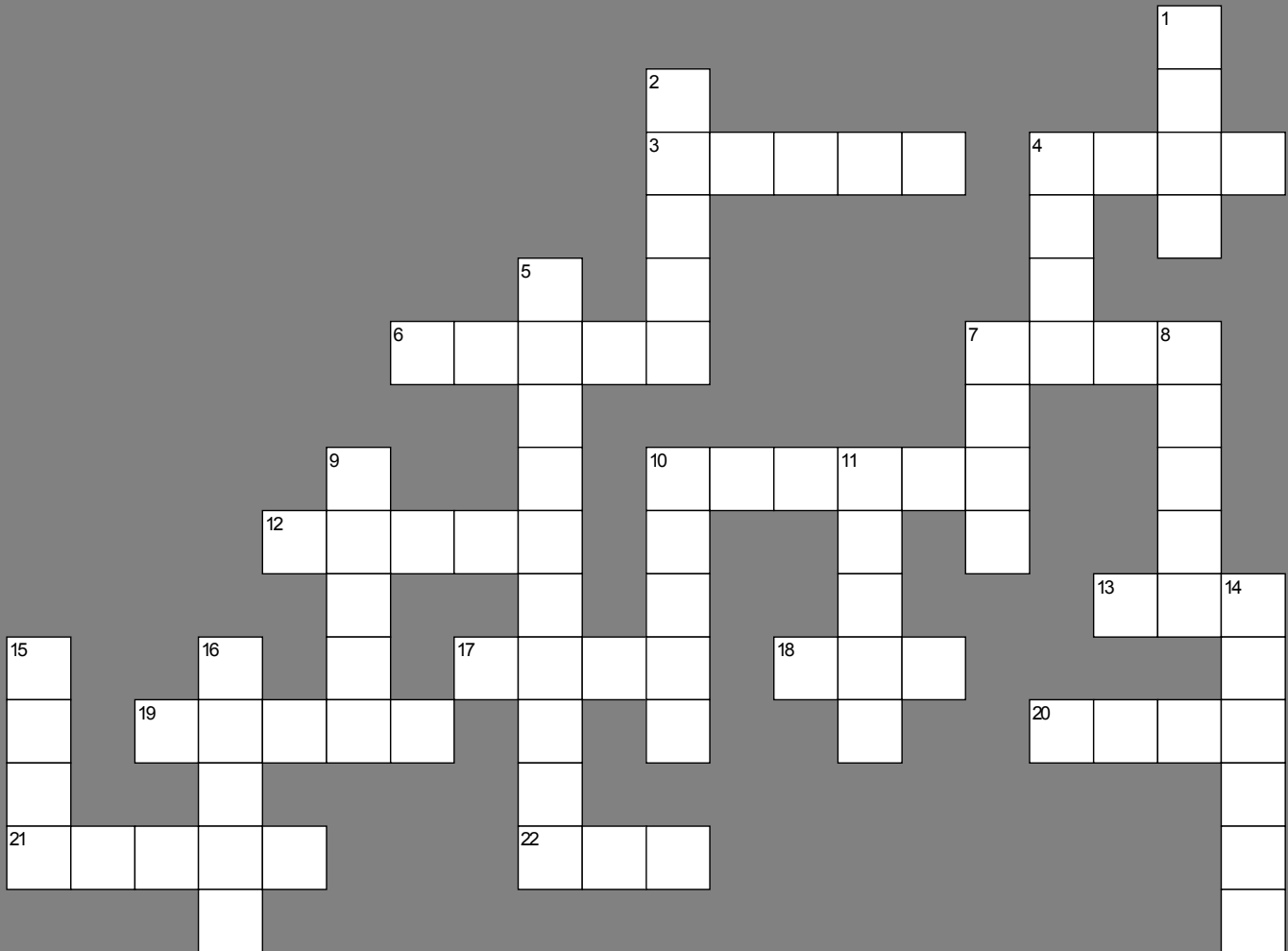


On the lines below, give the dimensions of two different rectangles that have the same area, but different perimeters, as rectangle $QRST$.

Rectangle #1: height = _____ length = _____

Rectangle #2: height = _____ length = _____

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



ACROSS

- 3 77 is composite. Right or wrong? (P. 108.)
- 4 $68 = N \times 17$
- 6 Area of rectangle is 16, width is 6. Length of rectangle is 2.5. Right or wrong?
- 7 $16/6$ (more less same) 3.
- 10 6 twentieths = 3 ____ .
- 12 $0.6 = n\%$
- 13 $\$N/4 = 25$ cents.
- 17 Chocolate bar has 36 squares. How many squares in $1/4$ of bar?
- 18 $35/100 - 25/100 = N/100$
- 19 $1/2$ of one angle of a regular hexagon is N° .
- 20 Perimeter of square = 20. Side of square = N.
- 21 Triangle can have a 17.65° angle. Right or wrong?
- 22 Millimeters in a centimeter. (P. 109.)

DOWN

- 1 Which is an integer? 4, 4.5, $1/8$. (P. 108.)
- 2 Right or wrong? A 5×8 rug has same area as 4×8 rug.
- 4 Surface area of a cube is 30 sq. in. Area of one side = N sq. in.
- 5 $24/50 = N\%$
- 7 One cubic centimeter (more less same) one cubic meter.
- 8 Missing digit: $3 \div 8 = 0.3_5$
- 9 16 fourths = N halves.
- 10 Greatest common factor of 3 and 45.
- 11 $3/4 + 17/8$ is approximately what integer?
- 14 Length of wire is 132 inches long. How long is the wire in feet?
- 15 Batch of cookies uses $1/2$ cup of chocolate chips. How many chocolate chips needed for 8 batches?
- 16 11 is factor of 132. Right or wrong?

Parent/Guardian signature:

12

For puzzle time, return on:

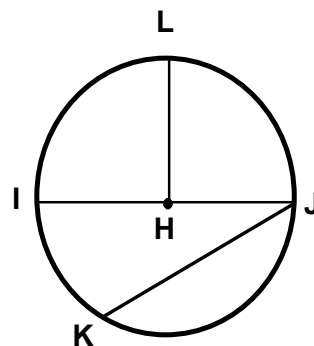
1. The table below shows how many gumballs of each color are in a machine.

Color	Number
Red	10
Yellow	15
Blue	9
Purple	11
Orange	5

If Paula buys a gumball from the machine, what is the probability that it will be a red one?

- ☐ **A** 5% ☐ **B** 33%
☐ **C** 20% ☐ **D** 25%

2. Which word describes line segment IJ ?



- ☐ **A** radius ☐ **B** circumference
☐ **C** arc ☐ **D** diameter

3. Valerie wants to cover her book shelves with colored contact paper.

The three shelves are 12" wide and measure $2\frac{1}{2}$ feet, $2\frac{1}{2}$ feet, and $2\frac{3}{4}$ feet in length.

Contact paper is 12" wide and sold by the yard. How many yards of contact paper should Valerie buy to cover her shelves? Explain your answer using words, numbers, or pictures.

Answer: _____ yards

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

[illegible][illegible]

The image contains two crossword puzzles. The left puzzle is a 15x15 grid with the following words:

- Across: HUNDREDTHS, THIRTY, SCALES, NINETEEN, COMPOSITE, TRIANGULATION
- Down: SIX, FOUR, A, O, I, X, R, E, I, G, H, T, W, H, R, E, E, P, Y, O, G, Y, A, M, S, D, V, E, U, F, O, U, R, T, R, I, A, N, G, U, L, A, T, I, O, N

The right puzzle is a 15x15 grid with the following words:

- Across: TWENTYTHREE, FIFTY, FOUR, RIGHT, ZEHLE, FOUR, ONE, LESS
- Down: BULF, FOUR, SAMES, TWENTY, FIVE, FOUR, NINE, X, Y, E, I, G, H, T, E, E, N, S, O, N, T, S, N, O, N, Y, L, E, S, S

The image contains two crossword puzzles. The left puzzle is a 15x15 grid with the following words filled in:

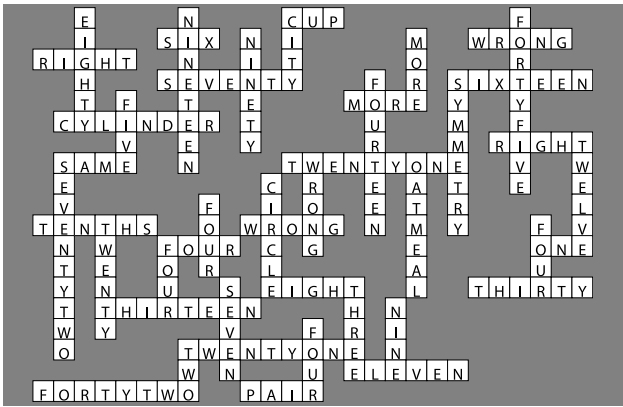
- Across: HUNDREDTHS (1,4-15), THIRTY (4,1-6), SCALES (7,2-7), NINETEEN (10,1-10), COMPOSITE (12,2-12), TRIANGULATION (14,1-14).
- Down: THIRTY (1,4-6), SCALES (2,7-7), NINETEEN (3,11-11), COMPOSITE (4,2-12), TRIANGULATION (5,1-14), HUNDREDTHS (6,4-15), TWENTYTHREE (7,11-11), FIFTY (8,11-11), FOUR (9,11-11), ONE (10,11-11), LESS (11,11-11).

The right puzzle is a 15x15 grid with the following words filled in:

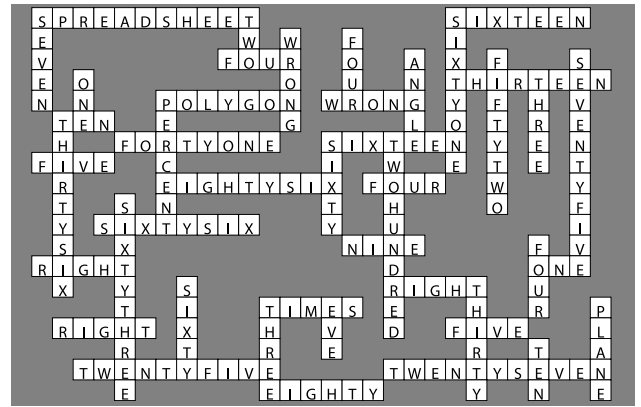
- Across: BULU (1,4-6), FOUR (4,1-4), TWENTYTHREE (7,2-12), SAMES (10,1-4), FIFTY (12,2-7), FOUR (14,2-5), RIGHT (15,2-7), Z (16,2-2), FOUR (17,2-5), ONE (18,2-5), LESS (19,2-5).
- Down: BULU (1,4-6), FOUR (4,1-4), TWENTYTHREE (7,2-12), SAMES (10,1-4), FIFTY (12,2-7), FOUR (14,2-5), RIGHT (15,2-7), Z (16,2-2), FOUR (17,2-5), ONE (18,2-5), LESS (19,2-5).

[illegible][illegible]

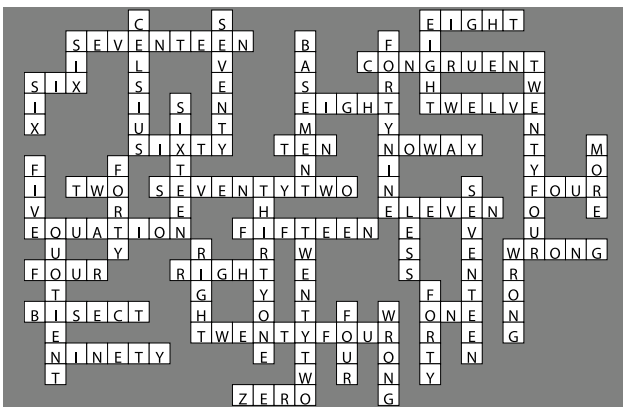
Lesson 41: Page 94.



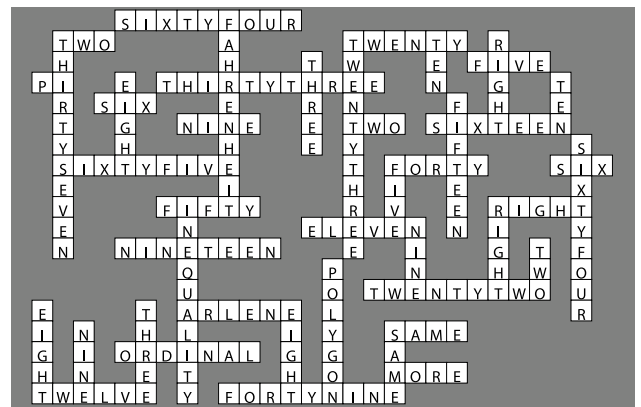
Lesson 42: Page 96.



Lesson 43: Page 98.



Lesson 44: Page 100.



Application Page Answer Keys

Lesson 1: P. 11.
1: C 2: A

Lesson 2: P. 13.
1: C 2: D

Lesson 3: P. 15.
1: D 2: B

Lesson 4: P. 17.
1: B 2: A

Lesson 6: P. 21.
1: B 2: C

Lesson 7: P. 23.
1: B 2: C

Lesson 8: P. 25.
1: A 2: C

Lesson 9: P. 27.
1: D 2: B

Lesson 11: P. 31.
1: A 2: C

Lesson 12: P. 33.
1: A 2: B

Lesson 13: P. 35.
1: A 2: B

Lesson 14: P. 37.
1: D 2: B

Lesson 16: P. 43.
1: D 2: D

Lesson 17: P. 45.
1: A 2: D

Lesson 18: P. 47.
1: D 2: B

Lesson 19: P. 49.
1: A 2: C

Lesson 21: P. 53.
1: D 2: C

Lesson 22: P. 55.
1: D 2: D

Lesson 23: P. 57.
1: C 2: C

Lesson 24: P. 59.
1: D 2: A

Lesson 26: P. 63.
1: B 2: C

Lesson 27: P. 65.
1: C 2: C

Lesson 28: P. 67.
1: A 2: D

Lesson 29: P. 69.
1: C 2: D

Lesson 31: P. 75.
1: D 2: B

Lesson 32: P. 77.
1: A 2: C

Lesson 33: P. 79.
1: C 2: C

Lesson 34: P. 81.
1: A 2: A

Lesson 36: P. 85.
1: A 2: B

Lesson 37: P. 87.
1: A 2: D

Lesson 38: P. 89.
1: D 2: A

Lesson 39: P. 91.
1: A 2: B

Lesson 41: P. 95.
1: D 2: A

Lesson 42: P. 97.
1: D 2: D

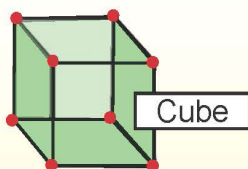
Lesson 43: P. 99.
1: D 2: A

Lesson 44: P. 101.
1: A 2: B

MATH Level 1

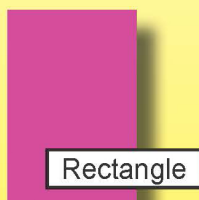
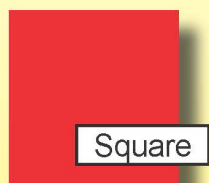
Students build skills and receive repetitive practice in national and state standards for academic success and higher scores on the state math tests.

Over 1,025 math skill and math literacy builders!



A **cube** has:

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



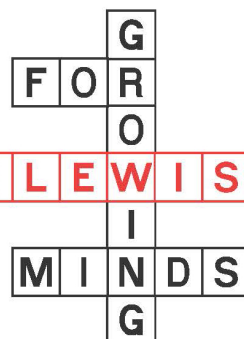
1. Three squares have how many sides total?
2. $9 \text{ sides} + 4 \text{ sides} - 3 \text{ sides} - 6 \text{ sides} =$ which geometric shape?
3. How many angles total in one octagon and three triangles?

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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