

PUZZLEWISE™ FOR GROWING MINDS

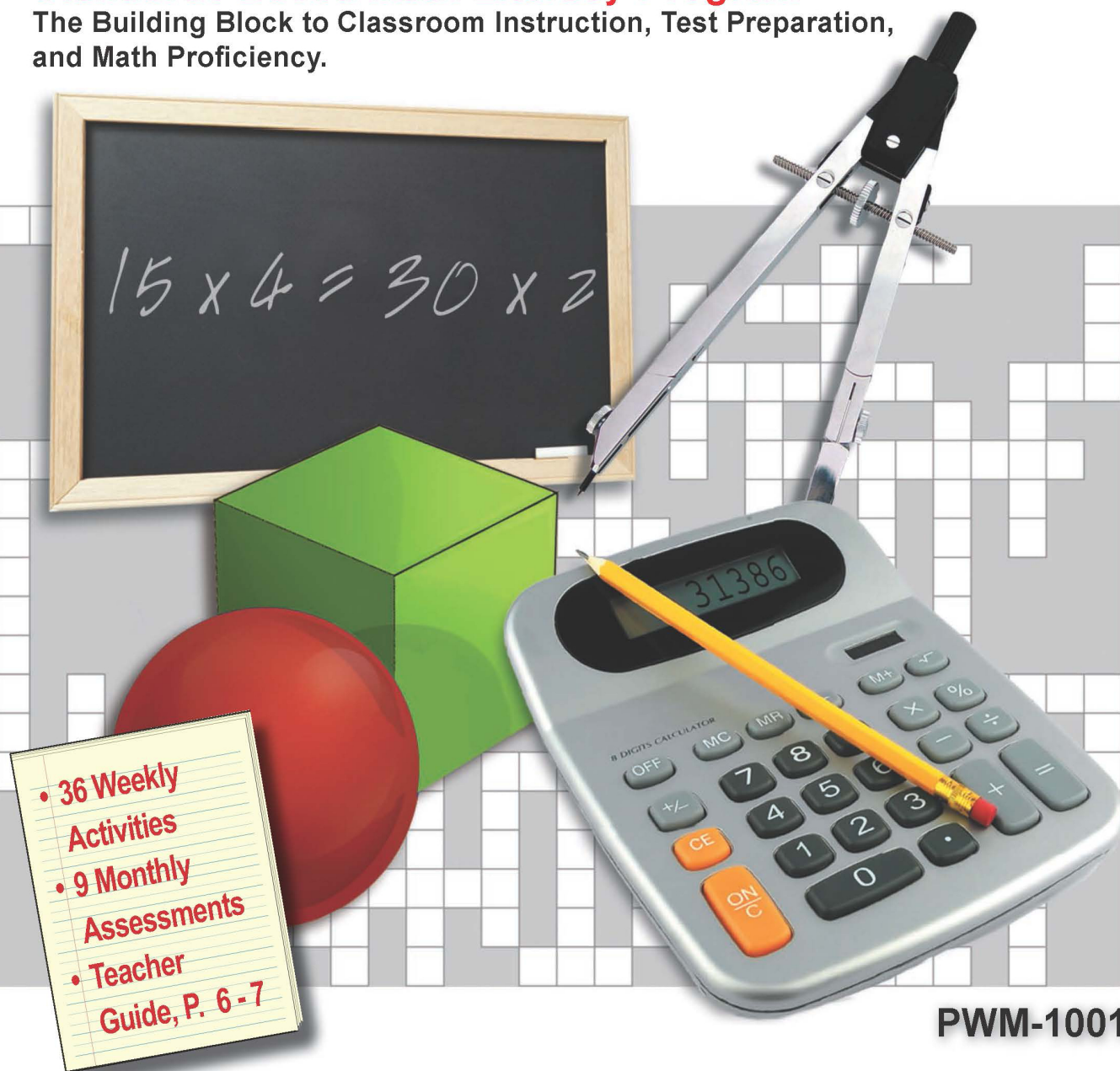
School/Home Edition

MATH

Supports
NCTM and **state**
standards.

Standards Based Math Literacy Program

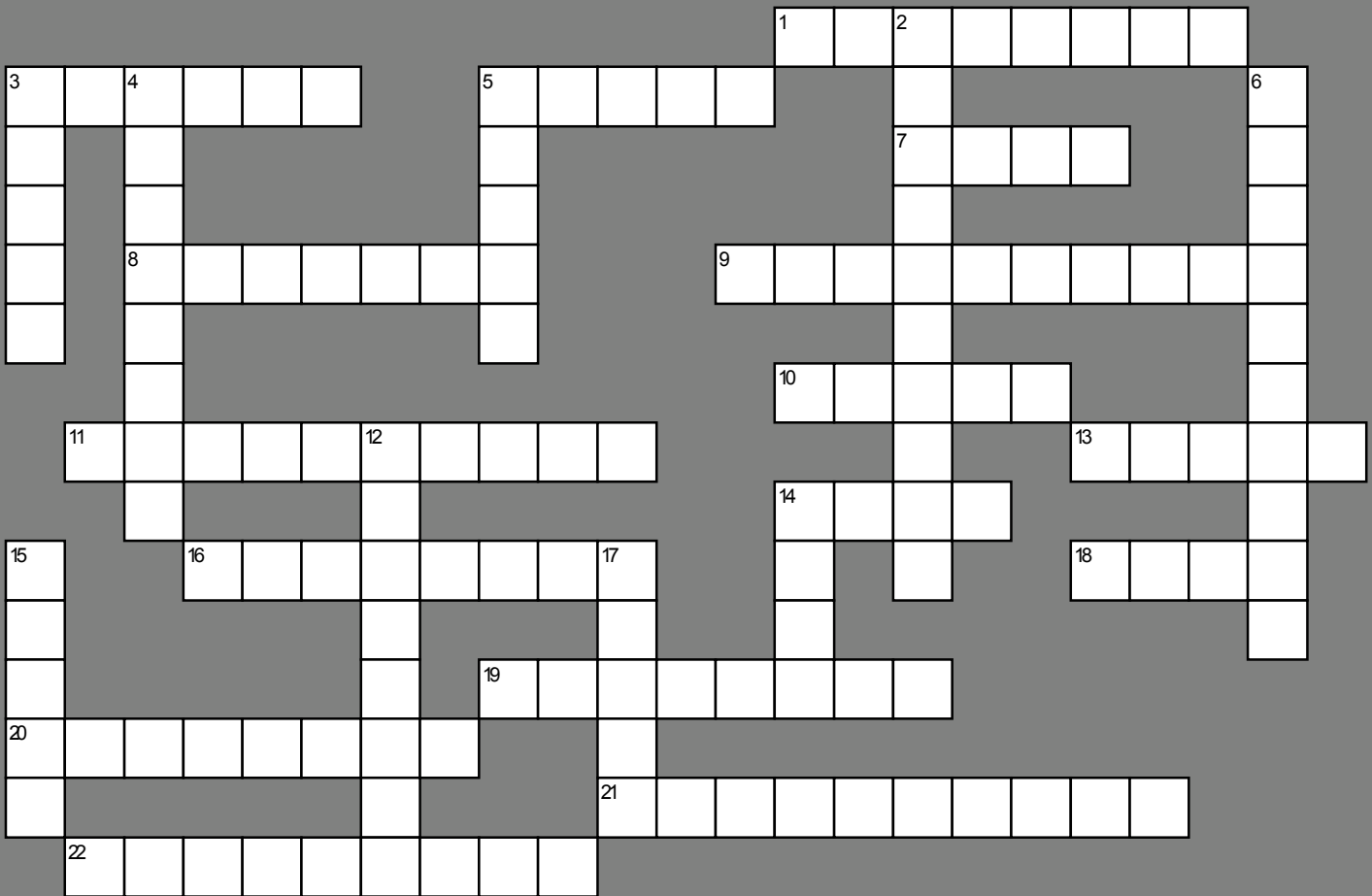
The Building Block to Classroom Instruction, Test Preparation,
and Math Proficiency.



PWM-1001

Students improve critical thinking
skills and problem solving strategies.

Student Name:



ACROSS

- 1 Bathroom sink holds 9 quarts of water, and basement sink holds 2 gallons. Which holds more (bathroom or basement)?
- 3 When pool opens, 8 kids get in. 1 hour later, 6 more kids get in; 2 get out. How many kids in pool now?
- 5 Quadrilateral can have angles 60° , 60° , 60° , and 60° . Right or wrong?
- 7 Small unit of length in U.S., about 2.5 cm.
- 8 Bees like this shape.
- 9 $3Y - 9$ when $Y = 19$.
- 10 Total number of toes on quintuplets.
- 11 8, 16, 24, 32, ... What is 9th term in sequence?
- 13 $6 \times 4 - N = 21$
- 14 Pattern Pairs: (121, 11), (16, 4), (25, N).
- 16 AA batteries are approximately this shape. (P. 111.)
- 18 Regular solid having six congruent square faces.
- 19 Mean is 17. Data is N, 16, 16 and 18. (P. 112.)
- 20 Fraction like $\frac{7}{4}$, w/numerator is greater than its denominator.

- 21 Pattern: 3, 9, 11, 33, N, 105.

- 22 Two lines intersect making 121° angle. Other angle's measure?

DOWN

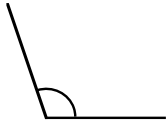
- 2 Probability of 7 out of 20 = N%
- 3 Box has surface area 10. 4 sides have area 1 each. Other 2 sides have area N each.
- 4 Drawer contains 3 different knives, 2 different forks, 3 different spoons. Number of place settings using one of each?
- 5 Right or wrong? 40% of 10 is less than one fourth of 16.
- 6 Scores: 23, 40, 62, 90, 35, 89, 67. Range? (P. 112.)
- 12 $5r - 2$ when $r = 3$.
- 14 $6N + 9 = 39$.
- 15 Relation between two quantities expressed as the quotient of one divided by the other.
- 17 Right or wrong? 2×4 rectangle is similar to 4×8 rectangle.

Parent/Guardian signature:

10

For puzzle time, return on:

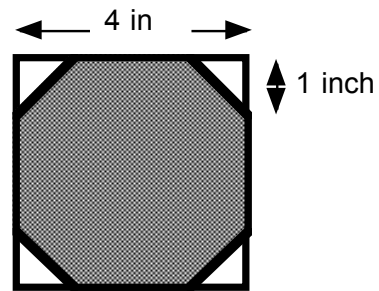
1. Look at the angle shown here.



What appears to be closest to the measure of this angle?

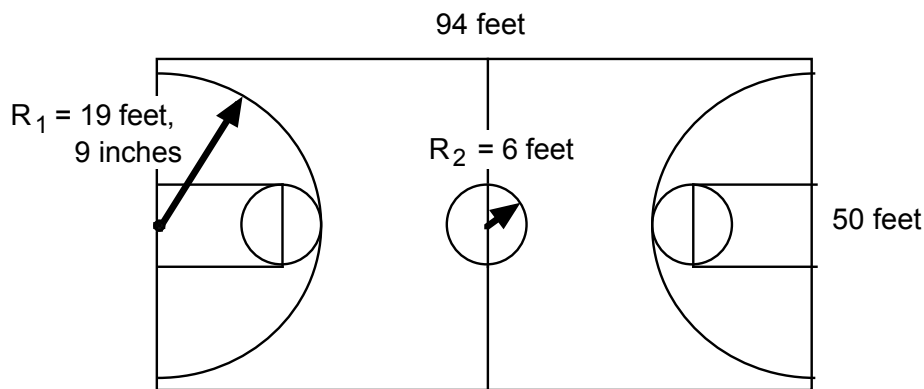
- ☐ A 91°
- ☐ B 108°
- ☐ C 63°
- ☐ D 146°

2. Four right isosceles triangles are removed from the corners of a square as shown here. What is the remaining area?



- ☐ A 14 inches^2
- ☐ B 9 inches^2
- ☐ C 12 inches^2
- ☐ D 25 inches^2

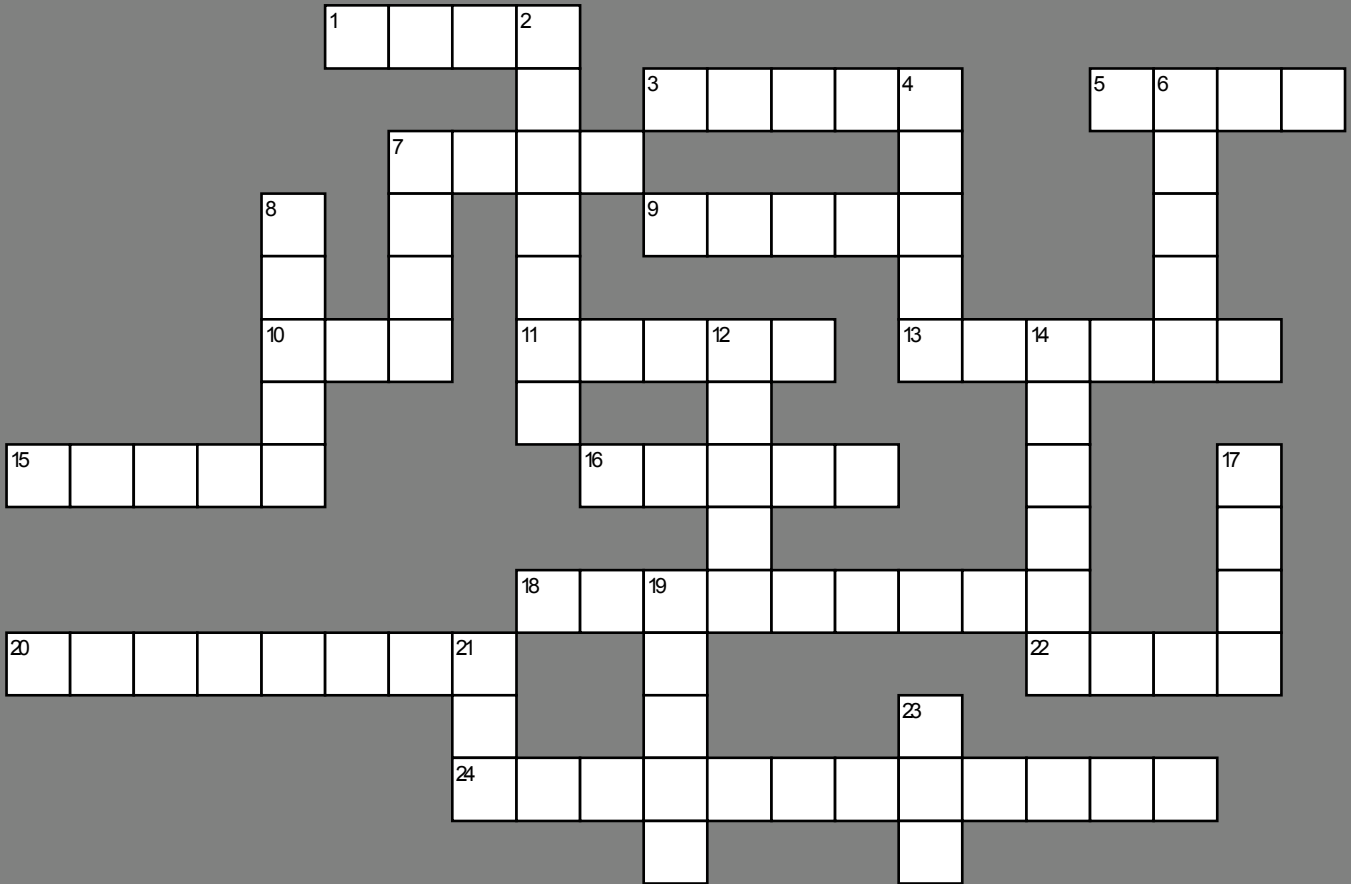
3. Riddleville Middle School is repainting the curved lines on their basketball court.



There are two large semicircles and three smaller circles with radii shown above. What is the total length of these curved lines?

Total Length = _____ feet

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



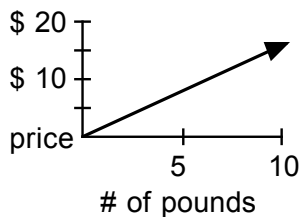
ACROSS

- 1 A 2-liter bottle juice holds (more less same) as 5 half-liter bottles juice.
- 3 Sarah's paper was 7920 words and Peter's paper was 7834 words. Who wrote shorter paper?
- 5 Volume of $3 \times 2 \times 7$ prism is (more less same) volume of $6 \times 8 \times 1$ prism, same base.
- 7 $2.00567 - 1.9406 = 0.06_07$
- 9 Right or wrong? $(6 \times 3) + 2 = 6 \times (3 + 2)$
- 10 N hundredths in 0.01
- 11 How many are not integers? 6.5, 2, 7.9, 12, $5/10$
- 13 What's the opposite of -20?
- 15 $8.25 - 2/6$ is about 7. Right or wrong?
- 16 Right or wrong? 2.89×6.23 is about 18.
- 18 $0.45 = N\%$.
- 20 The temp. was 22 degrees in morning, and rose 30 degrees by afternoon. Temp. in afternoon was N degrees.
- 22 Next? O, T, T, F, F, S, S, E, ___ (Full word. Hint: these are initials.)
- 24 Shannon's stock was worth \$1000. It went down 20%. How many dollars is it worth now?

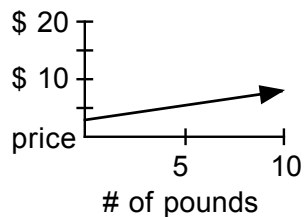
DOWN

- 2 35% of 200.
- 4 Right or wrong? The ratio 2 to 3 can be written $2/3$. (P. 108.)
- 6 Missing digit: $0.3 \times 0.6 = 0.1_$
- 7 Watch face has circumference of 16 mm. Diameter is about N mm (Hint: pi is about 3.14) (P. 110.)
- 8 Right or wrong? On a number line, 13.2 is to the left of 12.2
- 12 Triangle has base of 3, area of 12, height of N. (P. 111.)
- 14 $1/6 + 4/9 = N/18$
- 17 $1/2$ (more, less, same) as $5/10$.
- 19 Right or wrong? Quadrilateral w/vertices (6,0), (1,0), (1,7), and (6,7) is rectangle.
- 21 $5/500 = N\%$
- 23 Missing digit: $13.7 - 12.6 = 1._$

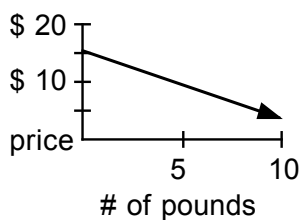
1. Strawberries are selling \$3 for 2 pounds. Which graph shows the correct relationship between pounds and price?



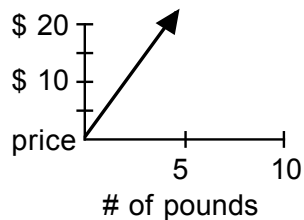
☐ A



☐ B



☐ C



☐ D

2. Which expression describes the rule used in the input/output model below?

X	3	8	5	11	20
Y	8	23	14	32	59

☐ A $Y = 5 + X$

☐ B $Y = X \div 3 + 10$

☐ C $Y = 3 \cdot X - 1$

☐ D $Y = (X - 1) \cdot 4$

3. Anika's mom gave her \$300 to go shopping for new school clothes. She chose the following items:

Shoes: \$ 40

3 Shirts: \$ 29 each

2 Pairs of Pants: \$ 38 each

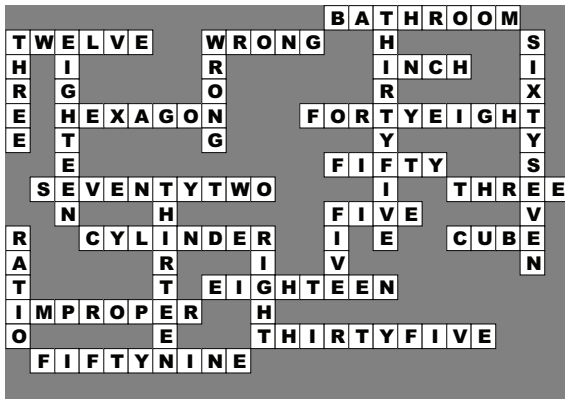
5 Pairs of Socks: \$ 6 each

Sales tax on clothing is 8%. How much money does Anika have left after making her purchases and paying sales tax? Explain your answer using words, number, or pictures.

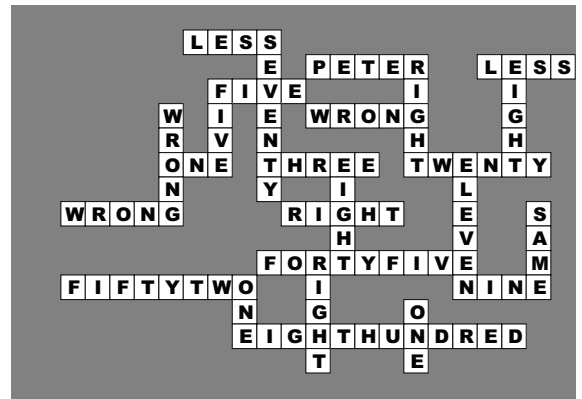
Money remaining = _____

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

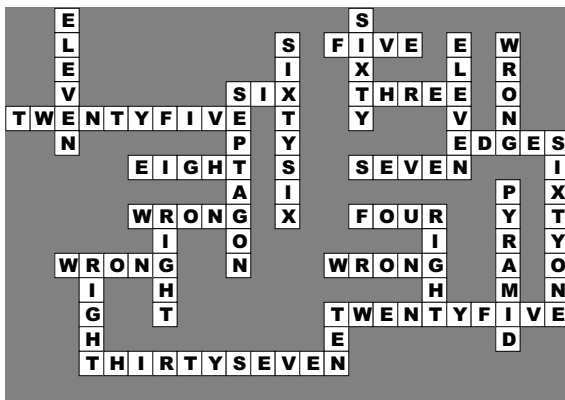
Lesson 1: Page 10.



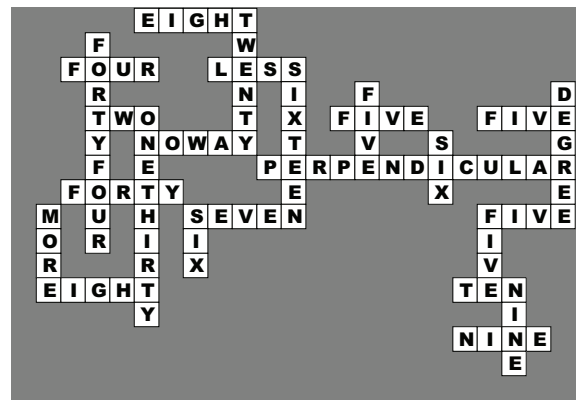
Lesson 2: Page 12.



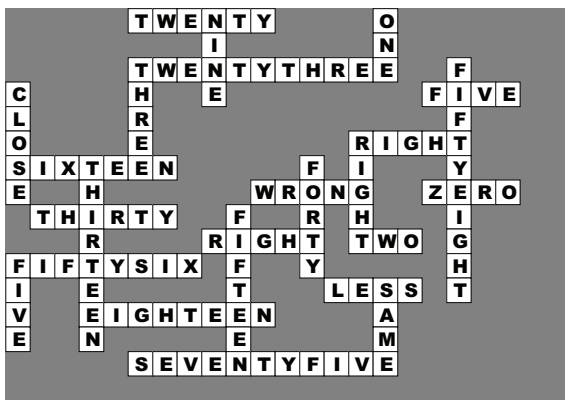
Lesson 3: Page 14.



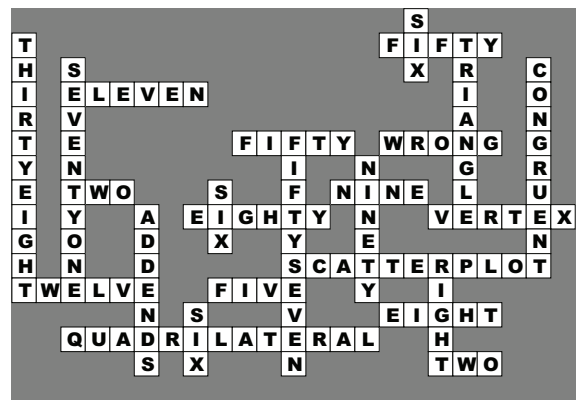
Lesson 4: Page 16.



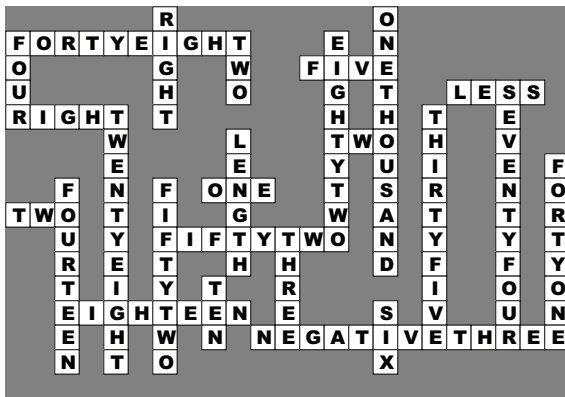
Lesson 6: Page 20.



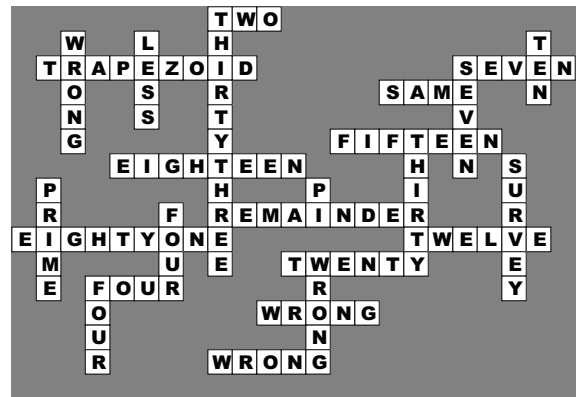
Lesson 7: Page 22.



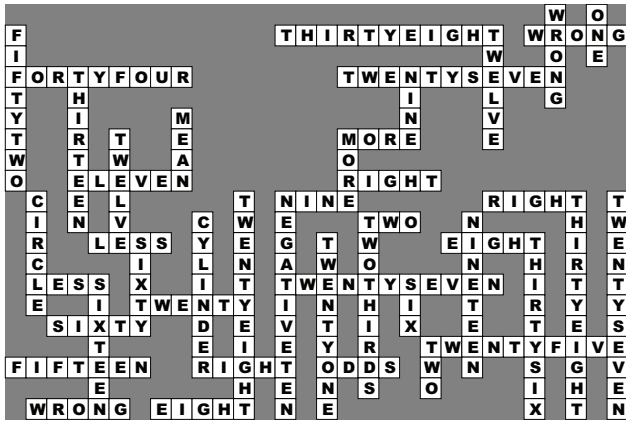
Lesson 8: Page 24.



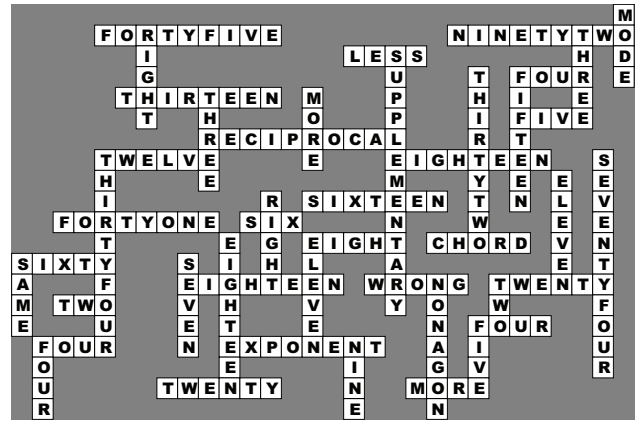
Lesson 9: Page 26.



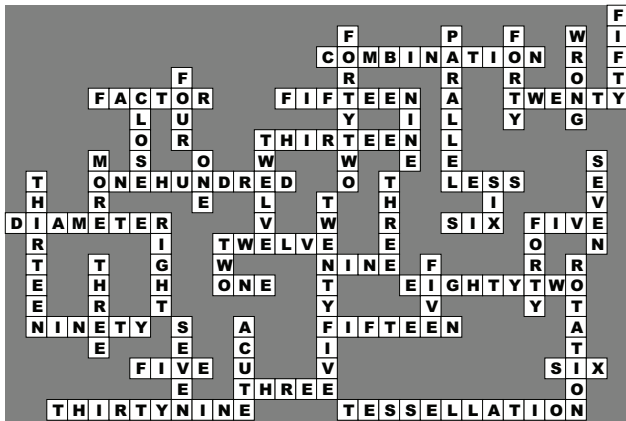
Lesson 41: Page 94.



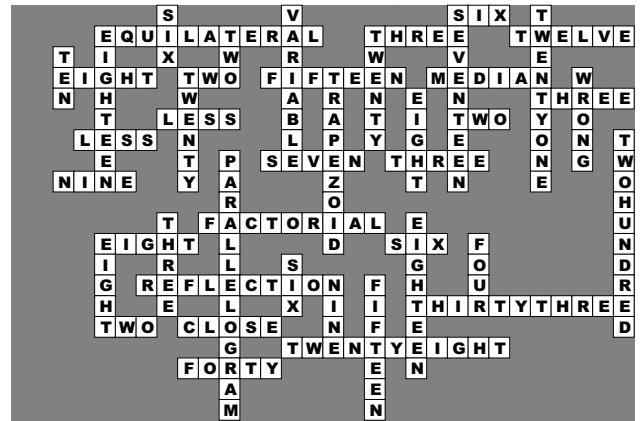
Lesson 42: Page 96.



Lesson 43: Page 98.



Lesson 44: Page 100.



Application Page Answer Keys

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

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

Lesson 3: P. 15.
1: C 2: A

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

Lesson 6: P. 21.
1: A 2: A

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

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

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

Lesson 11: P. 31.
1: B 2: B

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

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

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

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

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

Lesson 18: P. 47.
1: C 2: A

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

Lesson 21: P. 53.
1: A 2: B

Lesson 22: P. 55.
1: B 2: A

Lesson 23: P. 57.
1: A 2: D

Lesson 24: P. 59.
1: B 2: B

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

Lesson 27: P. 65.
1: B 2: A

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

Lesson 29: P. 69.
1: A 2: B

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

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

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

Lesson 34: P. 81.
1: D 2: C

Lesson 36: P. 85.
1: C 2: D

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

Lesson 38: P. 89.
1: C 2: B

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

Lesson 41: P. 95.
1: C 2: B

Lesson 42: P. 97.
1: A 2: B

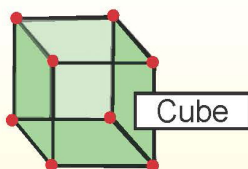
Lesson 43: P. 99.
1: C 2: A

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

MATH Level 1

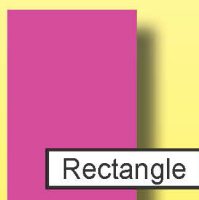
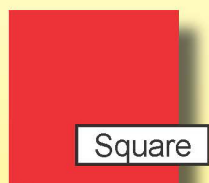
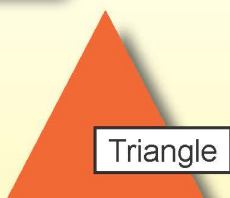
Students build skills and receive repetitive practice in national and state standards for academic success and higher scores on the state math tests.

Over 1,025 math skill and math literacy builders!



A **cube** has:

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



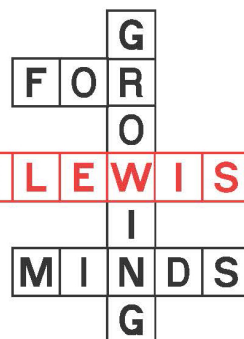
1. Three squares have how many sides total?
2. $9 \text{ sides} + 4 \text{ sides} - 3 \text{ sides} - 6 \text{ sides} =$ which geometric shape?
3. How many angles total in one octagon and three triangles?

Strongly Supports:

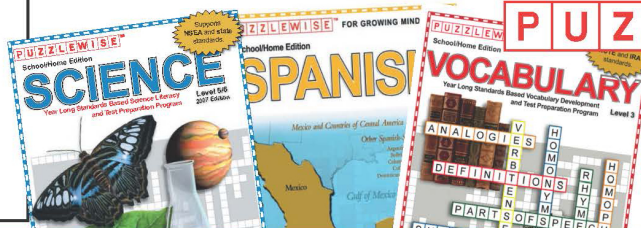
- Numbers & Operations
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National Teacher
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