

PUZZLEWISE™ FOR GROWING MINDS

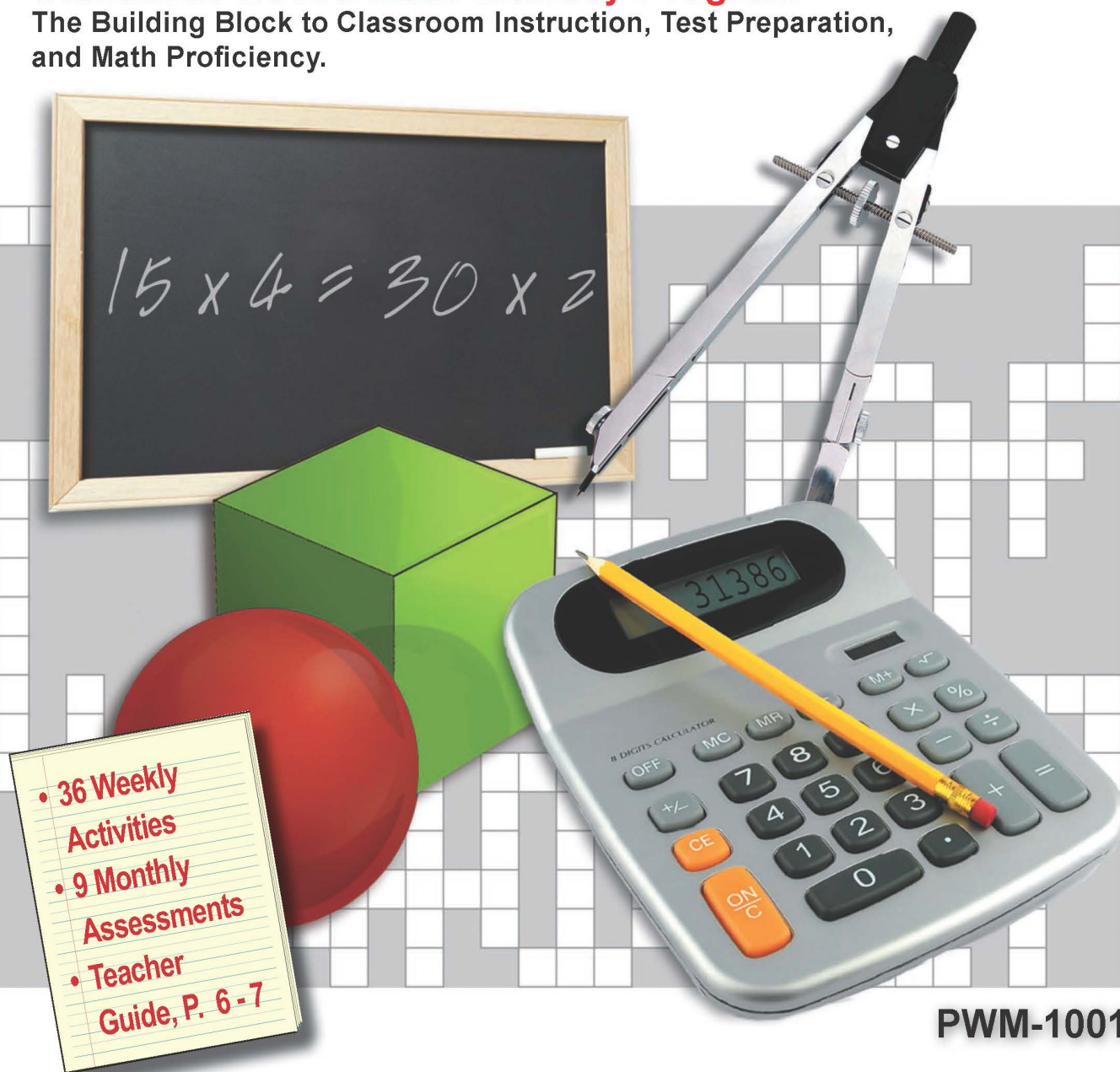
School/Home Edition

MATH

Supports
NCTM and **state**
standards.

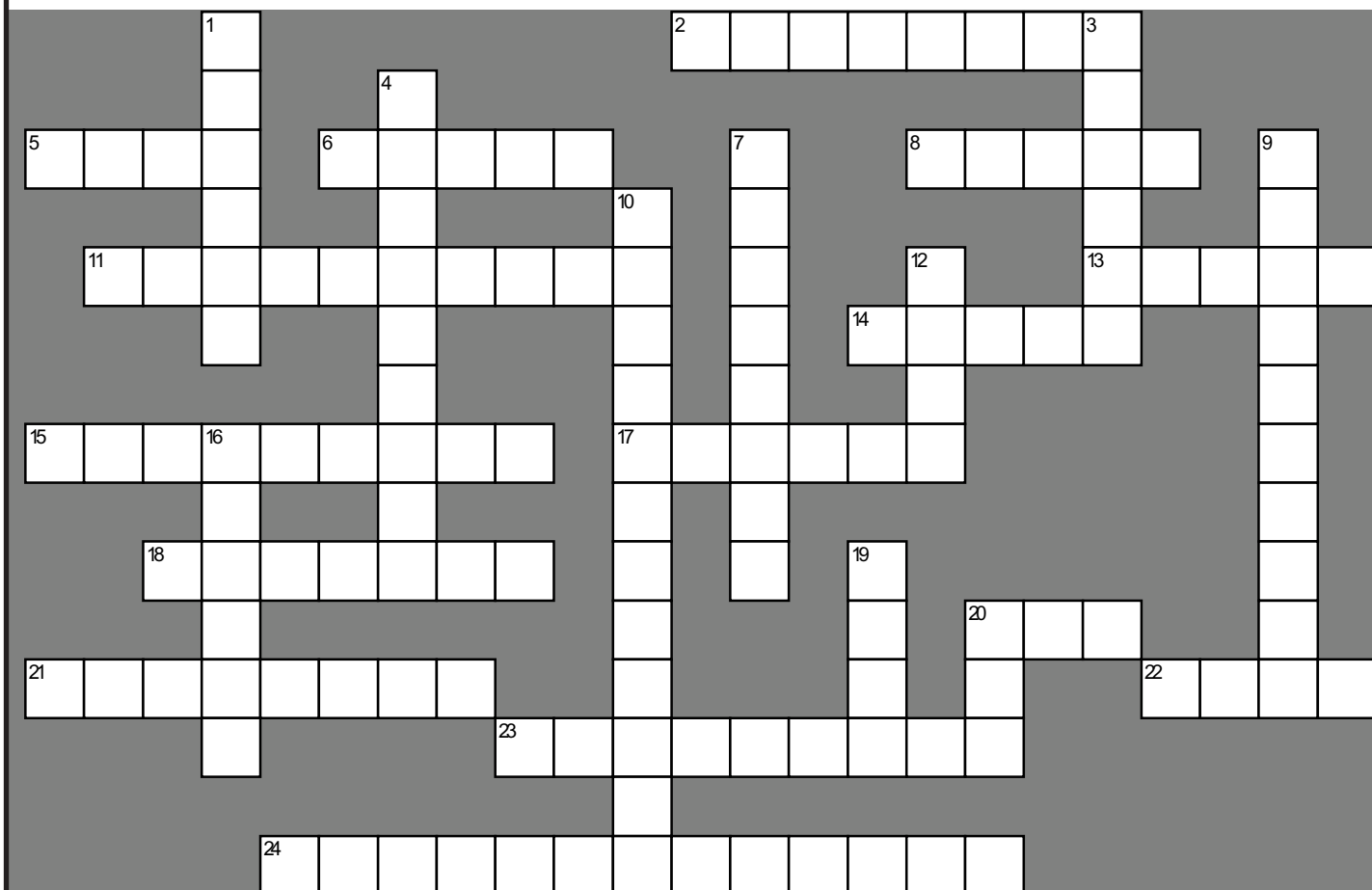
Standards Based Math Literacy Program

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



Students improve critical thinking
skills and problem solving strategies.

Student Name:



ACROSS

- 2** Chance tomorrow is sunny: 5/19. Chance going to beach on sunny day: 1/5. Chance you go to beach tomorrow: 1/N.
- 5** $1/4 \div 1/4$ (more less same) 1.
- 6** Right or wrong? A 4 x 3 rectangle is similar to 12 x 16 rectangle.
- 8** I stay inside if I'm lazy or it's raining. I feel lazy and it's sunny. Right or wrong? I go outside.
- 11** Chance my sister and I have same birthday: 29%. Chance we have different birthday: N%.
- 13** Roll a die three times. Chance of getting N sixes: 1/216.
- 14** 37 x 38 is about 1200. CLOSE or NO WAY?
- 15** $5! = 1 \times 2 \times 3 \times 4 \times 5$. Name of the symbol "!".
- 17** $4B + 3 = 51$. B = ?
- 18** Rectangle has vertices (15,11), (-22,11), (-22, -13), (N, -13).
- 20** $9 \times 4 - 5 \times 6$
- 21** 8/5, 16/5, 24/5, 32/5... What is 35th term in sequence?
- 22** Taxi ride costs \$1.75 plus \$2 per mile. 32 miles would cost (more, less, same) \$60.

23 6 squared.

24 Quadrilateral w/both pairs of opposite sides parallel. (P. 110.)

DOWN

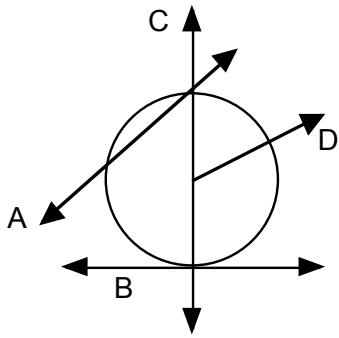
- 1** If $7T < 84$ then $T < \underline{\hspace{1cm}}$.
- 3** Quadrilateral has one angle 90° . Another quad. is similar but quadruple the size. Corresponding angle measures N° .
- 4** $4Y - 7$ when $Y=18$.
- 7** Right triangle has legs 13 and 5. How long is hypotenuse? (P. 110.)
- 9** Yolanda hits bulls eye 6 of 25 throws. % chance she'll hit bulls eye this time?
- 10** Point at (2,9) is reflected across x-axis. Its new location is (2,N).
- 12** Pattern: 1, 5, 13, ... Seventh term in sequence is (more less same) 250. (Hint: Pattern is times two and plus three.)
- 16** Right triangle has sides N, 40, and 50. (P. 110.)
- 19** Volume of $4 \times 3 \times 3$ box is (more less same) volume of a can height 8, radius 1.25 (Hint: Pi is approx 3.14.)
- 20** Photo 1 inch wide and 1.5 inches tall is scaled to make a photo 4 inches wide by N inches tall.

Parent/Guardian signature:

10

For puzzle time, return on:

1. Look at these lines and circle.



Which line appears to be tangent to the circle?

- ☐ **A** line A ☐ **B** line B
☐ **C** line C ☐ **D** line D

2. Sara is comparing sale prices on these cell phones:

M-Star	S-Cam	Full Moon	Firefly
75% off	$\frac{3}{5}$ off	$\frac{2}{3}$ off	60% off

Which two have the same rate of discount?

- ☐ **A** S-Cam and M-Star
☐ **B** Firefly and S-Cam
☐ **C** M-Star and Full Moon
☐ **D** Full Moon and Firefly

3. The following table shows the distance a dropped object will fall in a given amount of time.

Time in seconds	Distance in feet
0	0
0.5	4
1.0	16
1.5	36
2.0	64
2.5	100

How far will an object fall in 4.0 seconds? Show your work in the space provided.

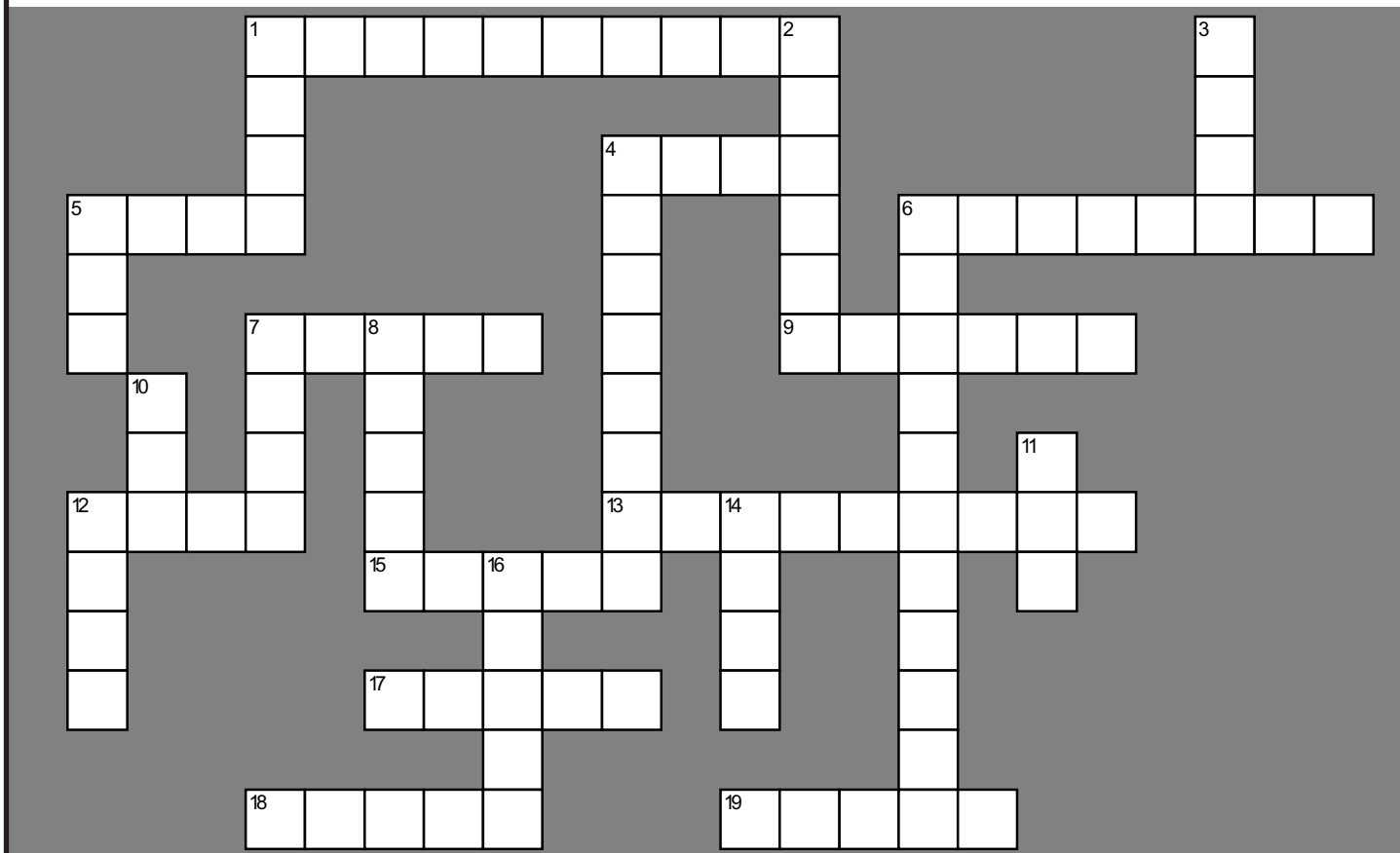
4. Math Vocabulary. On a separate paper, define what these words mean to you. Be as detailed as possible. Use any resources available. Mode, cone, radius.

Lesson 2

"It is not the years in your life but the life in your years that counts."

Adlai E. Stevenson, UN Ambassador

/25



ACROSS

- 1 (6+5) $8 = N + 40$
- 4 Missing digit: $4.4582 + 5.4926 = 9.9_08$
- 5 $2 \div 1/2$ (more less same) 4.
- 6 Movie ticket cost 50 cents in 1955 and \$7 in 2005. Average rate of change is ___ cents/year.
- 7 Eryka is 480 months old. How old in years?
- 9 Cube w/volume 1331 has edges w/length N.
- 12 Radius of circle w/circumference of 20 (more less same) 3. (Hint: Pi is about 3.14.) (P. 110.)
- 13 Box has surface area 24. Its length, width, height are doubled; new surface area = N.
- 15 How many are composite: 3, 4, 6, 9? (P. 108.)
- 17 Right or wrong? A 3×1 rectangle is similar to a 4×12 rectangle.
- 18 Shadow of a cylinder could be a rectangle. Right or wrong?
- 19 Square has side length 2. The diagonal is approximately how long?

DOWN

- 1 $0.4 = 2/N$

- 2 Start at $(-8, N)$ go down fourteen, up eight, and left two to $(-10, 6)$
- 3 15% (more less same) $1/7$.
- 4 Circle of radius N has a circumference of $82 \times \pi$. (P. 110.)
- 5 Karen spends forty five minutes a night on homework. How many hours does she do in 8 days?
- 6 Julie read 35 pages of her 80 page book, and then 22 pages. Pages left?
- 7 Cylinder: radius = N, height = 5, volume = $125 \times \pi$
- 8 Right or wrong? 10.2 is ten and two tenths.
- 10 $2/9 \times 9/N = 1$
- 11 N% sales tax on a \$13 item is 78 cents.
- 12 Volume of a $7 \times 2 \times 7$ box is (more less same) volume of a can height 13, radius 1.4
- 14 Ramirez earns \$11 cleaning for every \$22 babysitting. If he earned \$18 babysitting, he made \$N cleaning.
- 16 Right or wrong? 98.3×3.56 is about 350.

Parent/Guardian signature:

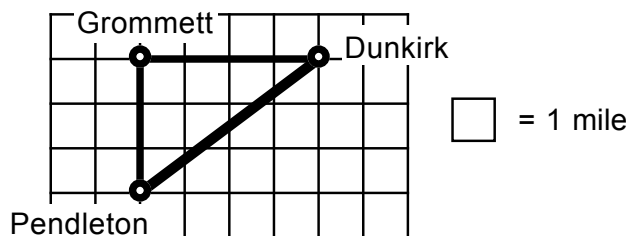
12

For puzzle time, return on:

1. Nearly 80% of the paper at Garret's school is recycled. The school uses about 800 pounds of paper per month. Approximately how much of that paper is recycled?

- ☐ A 600 – 650 pounds
- ☐ B 1600 – 1700 pounds
- ☐ C 800 – 900 pounds
- ☐ D 500 – 560 pounds

2. Look at the map below.

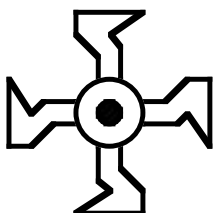


What is the shortest distance from Pendleton to Dunkirk?

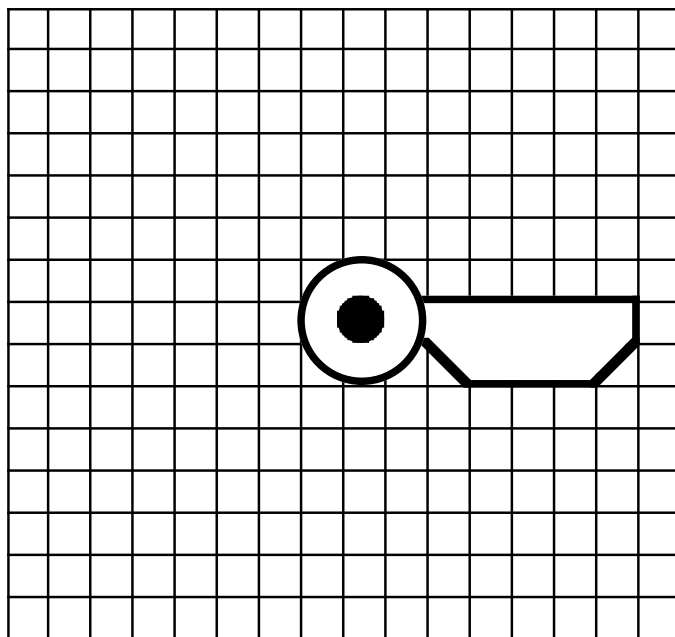
- ☐ A 6 miles
- ☐ B 8 miles
- ☐ C 5 miles
- ☐ D 7 miles

3. Ally and Rosie are designing fans. Each fan has four blades. The blades are congruent and arranged so that each blade is rotated 90° from its neighbors.

This is Ally's design:

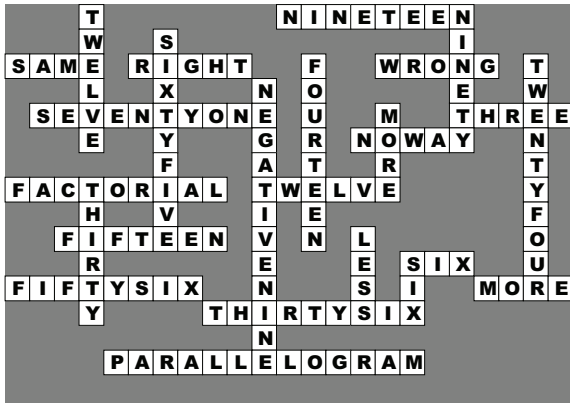


Rosie has drawn one of her blades as shown below. Complete the drawing so that Rosie's design also has four blades with rotational symmetry.

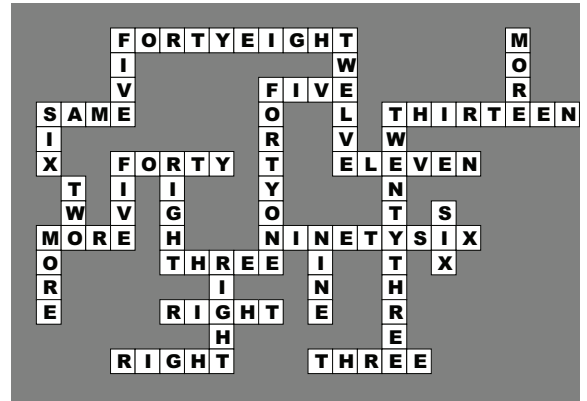


4. Math Vocabulary. On a separate paper, define what these words mean to you. Be as detailed as possible. Use any resources available. Polygon, parallelogram, hypotenuse.

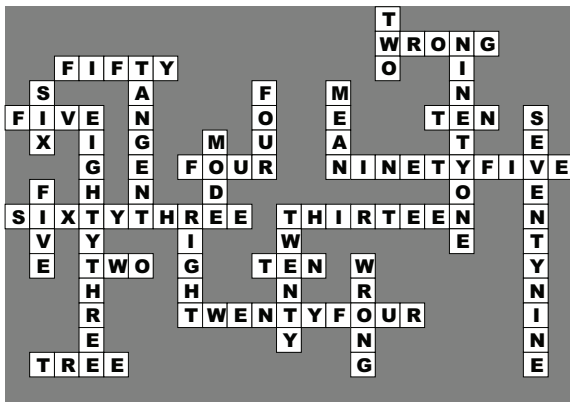
Lesson 1: Page 10.



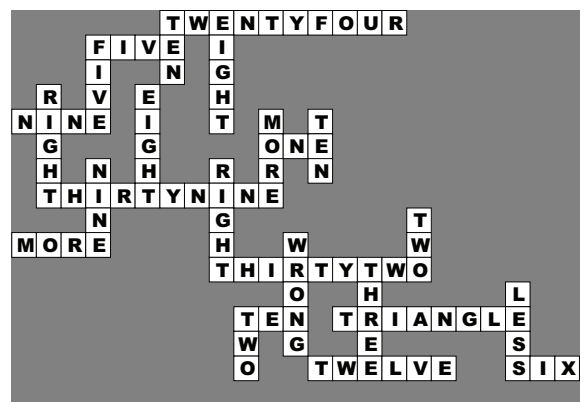
Lesson 2: Page 12.



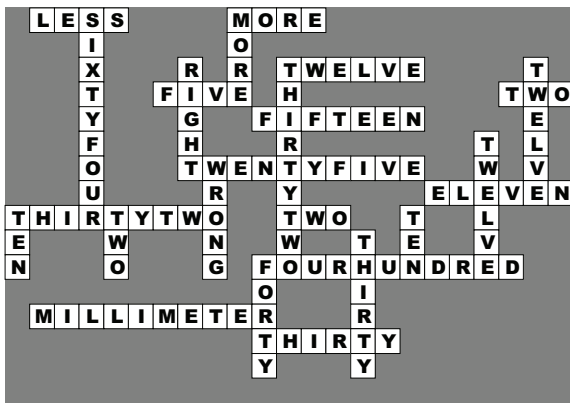
Lesson 3: Page 14.



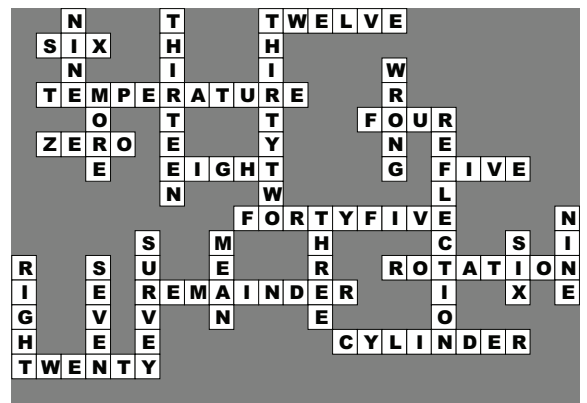
Lesson 4: Page 16.



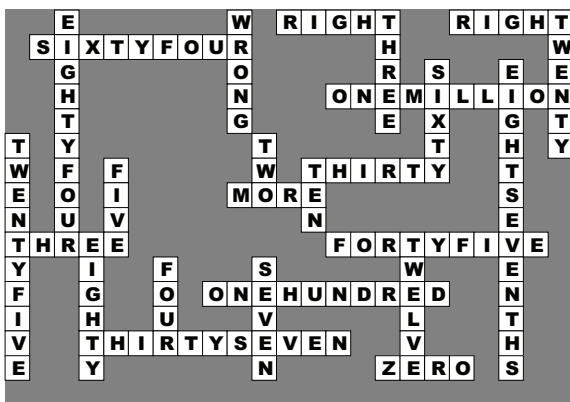
Lesson 6: Page 20.



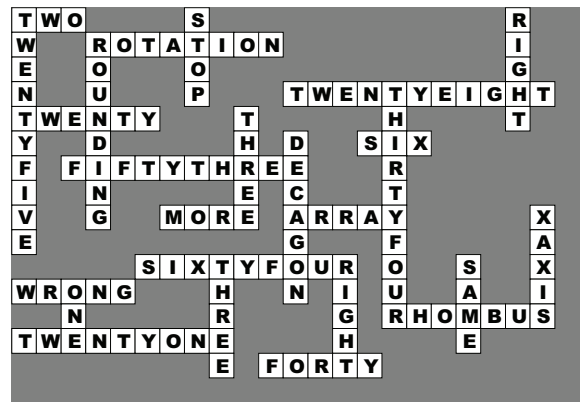
Lesson 7: Page 22.



Lesson 8: Page 24.



Lesson 9: Page 26.



A crossword puzzle grid with black squares at the intersections of words. The grid is filled with white squares where letters are placed.

[illegible]

FOURHUNDRED

RIGHT

FIFTYFOUR

TWENTYFIVE

NEGATIVESIX

FORTYFIVE

SEVEN

SEVEN

WRONG

THREE

FINAL

WRONG

THIRTY

WRONG

SIXTYFOUR

WRONG

SAME

FORTYEIGHT

TWENTYTWO

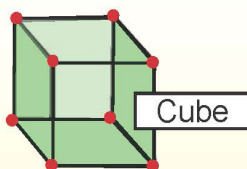
FIFTEEN

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

MATH Level 1

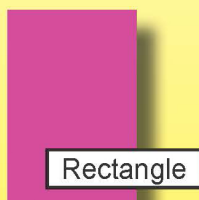
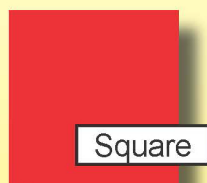
Students build skills and receive repetitive practice in national and state standards for academic success and higher scores on the state math tests.

Over 1,025 math skill and math literacy builders!



A **cube** has:

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



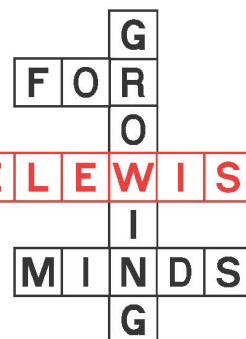
1. Three squares have how many sides total?
2. $9 \text{ sides} + 4 \text{ sides} - 3 \text{ sides} - 6 \text{ sides} =$ which geometric shape?
3. How many angles total in one octagon and three triangles?

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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