

Sample Puzzle
Grade 4 – Puzzle 1

Sample Puzzle Instructions

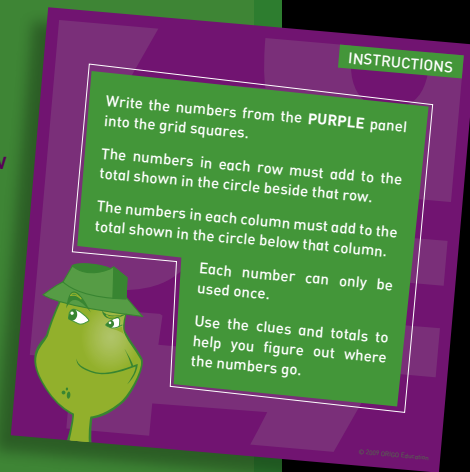
The ZUPELZ CD has been designed for the whole class to solve the puzzles.

Teachers will have to ensure the students understand how to solve the puzzles (see the instruction card on the right).

The CD includes 100 puzzles in an interactive format to be displayed on an interactive whiteboard or with a data projector and standard whiteboard. When used in this format, ZUPELZ stimulates whole-class discussion and provides students with practice in explaining and justifying their reasoning. The following pages demonstrate how to use one puzzle with the whole class.

For best viewing, display the puzzle in full-screen mode. The purple dots to the right of the puzzle show the number of clues available. Only one solution will match all the available clues. To reveal the clues one at a time and then the answer use the mouse or the spacebar, down arrow, or right arrow on the keyboard.

The following sample puzzle includes suggested questions to encourage class discussion.



Discuss the puzzle with the class.

Ask, Which numbers in the purple panel cannot go in the top row? Why not?

(7, 8, and 9 are the only three numbers that add to make 24.)

Ask, Which numbers cannot go in the bottom row? Why not?

(1, 2, and 3 are the only three numbers that add to make 6.)

24

15

6

15

14

16

1

2

3

4

5

6

7

8

9

A

These dots show the number of clues for the puzzle.

Invite a student to write the possible numbers into the grid as the discussion progresses.

Ask, Which number matches this clue? Why? Can we solve the puzzle now?

Ensure students explain and justify their responses.

		Even

24

15

6

15

14

16

1

2

3

4

5

6

7

8

9

A

The white dot indicates the first clue is now shown.

Ask, Which number matches this clue? Why? Can we solve the puzzle now?

	Even	
		Even

24

15

6

15

14

16

1

2

3

4

5

6

7

8

9

A

A second clue is revealed.

Ask, Which number matches this clue? Why? Can we solve the puzzle now?

$24 \div 4$	Even	
		Even

24

15

6

15

14

16

1

2

3

4

5

6

7

8

9

A

A third clue is revealed.

Ask, Which number matches this clue? Why? Can we solve the puzzle now?

2×4		
$24 \div 4$	Even	
		Even

24

15

6

15

14

16

1

2

3

4

5

6

7

8

9

A

All clues are now shown. The correct solution can now be written into the grid.

Say, Now check
your solution
(as shown here)
matches the
answer grid
(top right corner)

2×4 8	7	9
$24 \div 4$ 6	Even 4	5
1	3	Even 2

24

15

6

15

14

16

1

2

3

4

5

6

7

8

9

8 7 9

6 4 5

1 3 2