

GRADE 4

MATHS GAMES & PUZZLES

Printable Fun Activity Pack

- Number puzzles
- Logic challenges
- Magic squares
- Number grids
- Missing-number puzzles
- Pattern challenges
- Target-number games
- Maths riddles
- Maths detective
- Mixed challenge
- Answer key included

Name: _____

Date: _____ Teacher: _____

Puzzle 1: Number Detective

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Solve the clues.

1. I am greater than 40 and less than 60. I am a multiple of 7. What number am I?

2. I am an even number between 30 and 50. My digits add to 9. What numbers could I be?

3. I am a 3-digit number. My hundreds digit is 4, my tens digit is 2 less than my hundreds digit, and my ones digit is 3 more than my tens digit. What am I?

4. I am a multiple of 6 and 8, and I am less than 60. What is the smallest number I can be?

5. Use the digits 2, 4 and 7 once each to make the greatest 3-digit number and the smallest 3-digit number. Find their difference.

6. Bonus

Find a number that is a multiple of 4, 5 and 6, but less than 100.

Puzzle 2: Magic Square

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Use the numbers 1–9 exactly once. Every row, column and diagonal must total 15.

8		
	5	
		2

1. Complete the magic square.
2. What is the missing number in the centre? _____
3. Write the numbers in the top row: _____

4. Challenge

Can you create a different arrangement of 1–9 that still makes 15?

Puzzle 3: Mini Number Sudoku

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Fill each row and column with 1, 2, 3 and 4. Each 2×2 box must also contain 1, 2, 3 and 4.

1		3	
	4		2
	1	4	
4		2	1

1. Complete the Sudoku.
2. Which number belongs in the top-right cell? _____
3. Which number belongs in row 3, column 4? _____

Sudoku tip

Look at each row, column and 2×2 box to find which number is missing.

Puzzle 4: Number Grid Challenge

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Solve the clues, then write each answer in the matching row.

1.

--	--	--

$36 \div 4 =$

2.

--	--	--

$7 \times 8 =$

3.

--	--	--

$125 + 75 =$

4.

--	--	--

$500 - 275 =$

1. Each row has space for up to three digits. Leave unused boxes empty.

2. Circle the greatest answer.

3. Find the difference between the greatest and smallest answers: _____

Puzzle 5: Pattern Challenge

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Find the rule and complete each pattern.

1. 2, 5, 8, 11, ____, ____ Rule: _____

2. 100, 90, 80, 70, ____, ____ Rule: _____

3. 3, 6, 12, 24, ____, ____ Rule: _____

4. 1, 4, 9, 16, ____, ____ Rule: _____

5. 64, 32, 16, 8, ____, ____ Rule: _____

6. 5, 10, 20, 40, ____, ____ Rule: _____

7. Create your own

Write a six-term pattern and challenge a friend to find the rule.

Puzzle 6: Target Number Game

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Use each number exactly once. You may use $+$, $-$, $\times$ or $\div$ and brackets.

Target 24

Numbers: 2, 3, 4, 6

Your solution: _____

Target 30

Numbers: 2, 5, 6, 10

Your solution: _____

Target 50

Numbers: 4, 5, 10, 20

Your solution: _____

Target 100

Numbers: 2, 5, 10, 25

Your solution: _____

Bonus

Find a second solution for one target. Show your working.

Puzzle 7: Logic Challenge

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Read the clues and solve the mystery.

Four friends — Ava, Ben, Cara and Dan — each chose a different activity: Chess, Painting, Soccer or Coding.

- Ava did not choose Soccer or Chess.
- Ben chose Coding.
- Cara did not choose Painting.
- Dan did not choose Soccer.

Complete the table:

Friend	Activity
Ava	
Ben	
Cara	
Dan	

Who chose Painting? _____ Who chose Chess? _____

Puzzle 8: Maths Riddles

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Solve the riddles.

1. I am an odd number. Take away one letter from my name and I become even. What number am I?

2. I am a 2-digit number. My tens digit is twice my ones digit, and my digits add to 9. What number am I?

3. I have 4 equal sides and 4 right angles. What shape am I?

4. If you have 3 boxes with 6 apples in each box, how many apples do you have?

5. I am thinking of a number. Add 12 and get 35. What number am I?

Create your own riddle

Write a maths riddle for a classmate.

Puzzle 9: Maths Detective

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Find the hidden number.

- My number is between 20 and 80.
- It is divisible by 3.
- It is also divisible by 4.
- It is not divisible by 8.
- The sum of its digits is 9.

My number is: _____

Show how each clue helped you:

Bonus Detective

Find another number that is divisible by 3 and 4 but not by 8.

Puzzle 10: Grand Maths Challenge

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Complete the final challenge.

1. A number is multiplied by 5 and then 10 is added. The result is 60. What is the number?

2. I have 24 sweets. I give away one-third. How many sweets remain?

3. A rectangle is 9 cm long and 4 cm wide. What is its perimeter?

4. What is the smallest number that is a multiple of 5, 6 and 10?

5. Complete: 2, 6, 18, 54, ____, ____.

6. A \$50 item is reduced by \$12.75. What is the new price?

7. A class has 28 students. They form groups of 4. How many groups are made?

8. A clock shows 3:25 p.m. What time will it show after 1 hour 40 minutes?

Answer Key: Puzzles 1–5

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Puzzle 1

1. 49
2. 36 and 45
3. 424
4. 24
5. $742 - 247 = 495$
6. 60

Puzzle 4

1. 9
2. 56
3. 200
4. 225
2. Greatest answer: 225
3. $225 - 9 = 216$

Puzzle 2

One valid square:

- 8 1 6
- 3 5 7
- 4 9 2
2. 5
3. 8, 1, 6

Puzzle 5

1. 14, 17; +3
2. 60, 50; -10
3. 48, 96; $\times 2$
4. 25, 36; add consecutive odd numbers
5. 4, 2; $\div 2$
6. 80, 160; $\times 2$

Puzzle 3

Completed:

- 1 2 3 4
- 3 4 1 2
- 2 1 4 3
- 4 3 2 1
2. 4
3. 3

Answer Key: Puzzles 6–10

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Puzzle 6

Sample valid solutions:

24: $(3 - 2) \times 4 \times 6 = 24$

30: $(6 - (5 - 2)) \times 10 = 30$

50: $(4 \times 5) + 10 + 20 = 50$

100: $(2 \times 10 \div 5) \times 25 = 100$

Puzzle 7

Ben = Coding

Ava = Painting

Dan = Chess

Cara = Soccer

Painting: Ava

Chess: Dan

Puzzle 8

1. Seven
2. 63
3. Square
4. 18
5. 23

Puzzle 9

36. It is between 20 and 80, divisible by 3 and 4, not divisible by 8, and $3 + 6 = 9$.

Bonus: 12, 24, 36, 60, 72 are examples; 24 and 72 are divisible by 8, so acceptable answers include 36 and 60.

Puzzle 10

1. 10
2. 16
3. 26 cm
4. 30
5. 162, 486
6. \$37.25
7. 7 groups
8. 5:05 p.m.