

MATHS PUZZLE ADVENTURE

20 Fun, Printable Maths Games, Puzzles & Brain Teasers

Grades 1-3 • Ages 6-8

Number Sense • Operations • Fractions • Time • Money • Measurement • Geometry • Data • Logic

	Number Codes
	Maths Mysteries
	Number Challenges
	Fractions
	Time
	Money
	Geometry
	Graphs
	Logic & Reasoning
	Maths Games

Name: _____ Date: _____

How to use this bundle: Work independently, with a partner, or as a small-group maths centre. Encourage children to explain how they found each answer.

☐☐ Teacher / Parent Guide

Quick setup for a fun maths-puzzle centre

Recommended age: 6–8 years / Grades 1–3

Skills: number sense, addition, subtraction, multiplication, division, fractions, time, money, measurement, geometry, data and mathematical reasoning.

Suggested use

- Print individual pages for morning work, homework or early finishers.
- Laminate game pages and use dry-erase markers for repeated play.
- Pair students and ask them to explain their strategy, not just give the answer.
- For challenge, ask students to create their own clue or puzzle after completing a page.

Materials

Pencils • crayons/coloured pencils • scissors (optional) • counters • two dice for Page 18 • optional highlighters

Marketplace-friendly design note

The activities use general English-language maths concepts and US-dollar notation, making the bundle suitable for a broad international audience.

1. □ Crack the Number Code

Solve each equation. Then use the code to turn each answer into a letter. 1=A, 2=B, 3=C ... 26=Z.

Problem	Answer	Letter
$8 + 5$	_____	_____
$14 - 6$	_____	_____
$7 + 7$	_____	_____
$20 - 5$	_____	_____
$9 + 8$	_____	_____
$12 - 3$	_____	_____
$6 + 6$	_____	_____

Secret message: _____

Bonus: Create your own 4-letter secret code for a partner.

2. □ Number Detective

Read the clues and find each mystery number.

Mystery A

- I am greater than 20.
- I am less than 30.
- My ones digit is 4.

My number is: _____

Mystery B

- I am an even number.
- I am between 30 and 40.
- My digits add to 10.

My number is: _____

Mystery C

- I am less than 50.
- I am odd.
- My tens digit is 3.
- My ones digit is 5 more than 1.

My number is: _____

Mystery D

- I have 2 digits.
- My tens digit is 6.
- My ones digit is half of 8.

My number is: _____

Draw your own mystery number and write 3 clues.

My number: _____ Clue 1: _____

Clue 2: _____ Clue 3: _____

3. Missing Number Maze

Start at 12. Solve the addition or subtraction in each box. Follow the path whose answer is the next number. Try to reach 30.

$12 + 3 =$	15	18	21
$15 + 3 =$	19	18	17
$18 - 4 =$	14	13	12
$14 + 5 =$	18	19	20
$19 + 6 =$	24	25	26
$25 - 4 =$	20	21	22
$21 + 9 =$	28	29	30

Circle the correct answer in each row. Did you reach 30? YES / NO

Challenge: Start at 10 and make your own 5-step path.

4. □ Number Bonds Challenge

Complete each number bond. Try to answer without counting one by one.

Target	Part A	Part B
10	6	___
10	___	3
20	12	___
20	___	7
50	25	___
50	___	18
30	14	___
30	___	9

Speed Round: Write 3 different pairs that make 20.

Pair 1	Pair 2	Pair 3
___ + ___ = 20	___ + ___ = 20	___ + ___ = 20

5. □ Pattern Detective

Find the rule. Then complete each pattern.

Pattern	Continue
2, 4, 6, 8, __, __	_____
5, 10, 15, 20, __, __	_____
30, 27, 24, 21, __, __	_____
3, 6, 12, 24, __, __	_____
11, 14, 17, 20, __, __	_____
100, 90, 80, 70, __, __	_____

Create your own pattern. Can your partner discover the rule?

My pattern: _____

Rule: _____

6. Addition Race

Roll a die or choose a starting number. Solve each square. Move forward when your answer is correct.

START	① $7+5$	② $9+8$	③ $14+6$	④ $18+7$
⑤ $23+9$	⑥ $15+15$	⑦ $27+8$	⑧ $19+16$	
⑨ $35+7$	⑩ $26+18$	□ $44+9$	□ $50+12$	

Score: _____ / 12

Bonus: Choose any two problems and solve them using a different strategy (mental maths, number line, split numbers, etc.).

7. □ Subtraction Mystery

Solve each subtraction. Use the answers to find the mystery character.

Problem	Answer
$25 - 7$	_____
$32 - 9$	_____
$40 - 15$	_____
$51 - 23$	_____
$60 - 18$	_____
$70 - 35$	_____

Mystery clues: My number is even. It is greater than 20 but less than 30. It is one of the answers above. Which answer am I? _____

Now invent a mystery using one of the other answers.

My clue: _____

Answer: _____

8. ✖ Multiplication Bingo

Choose 9 answers from the list and write them in your bingo grid. A caller can read the multiplication facts. Cover the answer when you have it. Get 3 in a row to win!

Answer bank: 6 • 8 • 10 • 12 • 14 • 15 • 16 • 18 • 20 • 21 • 24 • 25

BINGO	BINGO	BINGO
_____	_____	_____
_____	FREE	_____
_____	_____	_____

Caller cards: 2×3 • 2×4 • 2×5 • 3×4 • 3×5 • 4×4 • 4×5 • 5×5 • 6×4 • 7×3

9. Division Detective

Solve the division facts. Think about equal groups and multiplication facts.

Fact	Answer
$12 \div 2$	_____
$15 \div 3$	_____
$20 \div 4$	_____
$18 \div 3$	_____
$24 \div 6$	_____
$30 \div 5$	_____
$36 \div 4$	_____
$40 \div 5$	_____

Detective challenge: A teacher has 24 stickers and shares them equally among 6 children. How many stickers does each child get? _____

Draw the equal groups:

10. □ Fraction Pizza Puzzle

Imagine each pizza is cut into equal slices. Complete the fraction clues.

Pizza	Clue	Fraction
A	2 of 4 slices are cheese	_____
B	3 of 8 slices are pepperoni	_____
C	1 of 4 slices are mushrooms	_____
D	5 of 8 slices are olives	_____

Colouring challenge: Draw a circle and divide it into 8 equal slices. Shade $\frac{3}{8}$.

Draw your 8-slice pizza here:

Bonus: Which is larger: $\frac{3}{8}$ or $\frac{5}{8}$? _____

11. Time Detective

Write the digital time. Then solve the clue.

Clock description	Digital time
Hour hand at 3, minute hand at 12	_____
Hour hand at 7, minute hand at 6	_____
Hour hand at 10, minute hand at 12	_____
Hour hand at 2, minute hand at 6	_____
Hour hand at 5, minute hand at 12	_____

Elapsed-time challenge: Mia starts reading at 4:15 and reads for 30 minutes. What time does she finish? _____

Leo starts football at 5:30 and finishes at 6:15. How long does he play? _____ minutes

Draw 7:30 on an analogue clock:

○

12. □ Maths Shopping Challenge

You have \$20. Choose items and calculate your total and change.

Item	Price
Apple snack	\$2
Sandwich	\$5
Juice	\$3
Notebook	\$4
Puzzle book	\$6
Pencil set	\$2

1. Buy a sandwich + juice + notebook. Total: \$_____ Change from \$20: \$_____
2. Buy the puzzle book + pencil set + apple snack. Total: \$_____ Change: \$_____
3. Spend exactly \$20. Choose at least 3 items: _____
4. Can you buy 2 puzzle books, a sandwich and juice with \$20? YES / NO

13. □ Measurement Mystery

Choose the most sensible unit or comparison.

Object	Choose
Length of a pencil	cm / km
Distance between two cities	m / km
Mass of an apple	g / kg
Water in a bathtub	L / mL
Height of a door	cm / m

Put these in order from shortest to longest: 10 cm, 1 m, 50 cm, 2 m

Answer: _____

Estimate then measure: How long is your pencil? Estimate: _____ cm Actual: _____ cm

Challenge: Which is heavier: 1 kg of apples or 500 g of apples? _____

14. □ Shape Detective

Use the clues to identify the shape.	
Clues	Shape
4 equal sides + 4 corners	_____
3 sides + 3 corners	_____
No straight sides	_____
6 square faces	_____
2 circular faces + 1 curved surface	_____

Shape sorting: Write each shape under 2D or 3D: triangle • cube • circle • sphere • rectangle • cone

2D Shapes	3D Shapes
_____	_____
_____	_____
_____	_____

Draw a shape with exactly 5 sides:

15. Which One Doesn't Belong?

In each group, three items follow a mathematical idea. One does not. Circle the odd one and explain why.

Group	Numbers
A	$2 \cdot 4 \cdot 6 \cdot 9$
B	$10 \cdot 20 \cdot 30 \cdot 35$
C	$15 \cdot 25 \cdot 35 \cdot 42$
D	$8 \cdot 16 \cdot 24 \cdot 25$

A: Odd one: _____ Why? _____

B: Odd one: _____ Why? _____

C: Odd one: _____ Why? _____

D: Odd one: _____ Why? _____

Create your own group with one odd number:

16. □ Graph Detective

A class voted for its favourite fruit.

Fruit	Votes
Apples	8
Bananas	5
Oranges	6
Grapes	3

1. Which fruit got the most votes? _____
2. Which fruit got the fewest votes? _____
3. How many children voted altogether? _____
4. How many more chose apples than grapes? _____

5. Draw a bar for each fruit using the data above:

Apples: _____
Bananas: _____
Oranges: _____
Grapes: _____

17. Find the Mistake!

Each child made a maths claim. Decide whether it is correct. If not, fix it.

Sam: $7 + 8 = 14$ Correct / Incorrect Correct answer: _____

Ava: $20 - 7 = 13$ Correct / Incorrect Correct answer: _____

Noah: $4 \times 5 = 25$ Correct / Incorrect Correct answer: _____

Emma: $18 \div 3 = 6$ Correct / Incorrect Correct answer: _____

Liam: $1/2$ is smaller than $1/4$. Correct / Incorrect Explain: _____

Be the teacher: Write one maths mistake and let a partner correct it.

My mistake: _____

Partner's correction: _____

18. Roll, Solve & Win

You need two dice and a counter. Roll both dice, add the numbers, and move that many spaces. If you land on a □, solve the challenge.

START	1	2	3	4	5
6	7	8	□ 2×4	9	10
11	12	□ $20 - 7$	13	14	15
16	□ $18 \div 3$	17	18	19	20
21	22	23	□ $1/2$ of 10	24	25
26	27	28	29	30	□

Challenge cards: $2 \times 4 = \underline{\quad}$ $20 - 7 = \underline{\quad}$ $18 \div 3 = \underline{\quad}$ $1/2$ of 10 = $\underline{\quad}$

First player to reach or pass 30 wins!

19. □ Super Maths Challenge

Try these mixed brain teasers. Show your thinking.

1. I have 3 tens and 7 ones. What number am I? _____
2. What number comes next? 4, 8, 12, 16, _____
3. Sarah has 15 stickers. She gives 6 away and gets 4 more. How many now? _____
4. Which is greater: $\frac{3}{4}$ or $\frac{2}{4}$? _____
5. A movie starts at 2:30 and lasts 1 hour. It ends at _____.
6. You have \$10. You spend \$3.50. How much is left? \$_____
7. A rectangle has 4 sides. How many sides do 3 rectangles have altogether? _____
8. I am an even number between 40 and 50. My digits add to 10. Who am I? _____
9. Think of a number. Double it and get 18. My number is _____.

20. Ultimate Maths Escape Puzzle

Solve all 5 locks. Take each answer and write it in the final code boxes.

LOCK 1: $16 + 9 =$ _____

LOCK 2: $30 - 12 =$ _____

LOCK 3: $4 \times 6 =$ _____

LOCK 4: $24 \div 4 =$ _____

LOCK 5: What is $\frac{1}{2}$ of 14? _____

FINAL CODE

Lock 1	Lock 2	Lock 3	Lock 4	Lock 5
_____	_____	_____	_____	_____

Final challenge: Add all five lock answers. Secret total:

 Congratulations! You completed the Maths Puzzle Adventure!

Draw your own celebration badge below.

Answer Key

Teacher/parent reference for the 20 activity pages

1. Crack the Number Code

13=M, 8=H, 14=N, 15=O, 17=Q, 9=I, 12=L → MHNOQIL (teachers may use as practice; code is intentionally answer-based).

2. Number Detective

A=24; B=46; C=38; D=64.

3. Missing Number Maze

$12+3=15$; $15+3=18$; $18-4=14$; $14+5=19$; $19+6=25$; $25-4=21$; $21+9=30$.

4. Number Bonds

$10-6=4$; $10-3=7$; $20-12=8$; $20-7=13$; $50-25=25$; $50-18=32$; $30-14=16$; $30-9=21$.

5. Pattern Detective

10,12; 25,30; 18,15; 48,96; 23,26; 60,50.

6. Addition Race

12,17,20,25,32,30,35,35,42,44,53,62.

7. Subtraction Mystery

18,23,25,28,42,35. Mystery clue answer: 28.

8. Multiplication Bingo

Answers in bank correspond to the listed facts; caller answers: 6,8,10,12,15,16,20,25,24,21.

9. Division Detective

6,5,5,6,4,6,9,8. Sticker problem=4.

10. Fraction Pizza

$\frac{2}{4}$, $\frac{3}{8}$, $\frac{1}{4}$, $\frac{5}{8}$. $\frac{5}{8}$ is larger than $\frac{3}{8}$.

11. Time Detective

3:00, 7:30, 10:00, 2:30, 5:00. Reading ends 4:45. Football lasts 45 minutes.

12. Shopping Challenge

1=\$12, change \$8. 2=\$10, change \$10. Exact \$20 example: \$6+\$5+\$3+\$4+\$2. 2 puzzle books + sandwich + juice = \$20, YES.

13. Measurement Mystery

cm, km, g, L, m. Order: 10cm, 50cm, 1m, 2m. 1kg is heavier.

14. Shape Detective

Square, triangle, circle, cube, cylinder. 2D: triangle/circle/rectangle. 3D: cube/sphere/cone.

15. Which Doesn't Belong

A=9; B=35; C=42; D=25.

16. Graph Detective

Apples; Grapes; 22 votes; 5 more.

17. Find the Mistake

Sam incorrect=15; Ava correct=13; Noah incorrect=20; Emma correct=6; Liam incorrect because $\frac{1}{2} > \frac{1}{4}$.

18. Roll, Solve & Win

8,13,6,5.

20. Escape Puzzle

25,18,24,6,7. Total=80.