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	_____	_____
3 – 2	_____	_____
12 + 8	_____	_____
10 – 2	_____	_____
3 + 3	_____	_____
7 × 3	_____	_____
20 – 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 40 and 50.
- 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 2.

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 8 answers from the answer bank and write one in each empty square. A caller reads the multiplication facts. Cover the matching answer. Get 3 in a row (across, down or diagonally) to win!

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

Write answer	Write answer	Write answer
Write answer	**FREE**	Write answer
Write answer	Write answer	Write answer

Caller cards:

2×3=6 2×4=8 2×5=10 3×4=12 3×5=15

4×4=16 4×5=20 5×5=25 6×4=24 7×3=21

9. □ Division Detective

Solve the division facts. Think about equal groups and multiplication facts.	
Fact	Answer
12 ÷ 2	_____
15 ÷ 3	_____
20 ÷ 4	_____
18 ÷ 3	_____
24 ÷ 6	_____
30 ÷ 5	_____
36 ÷ 4	_____
40 ÷ 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 3/8.

Draw your 8-slice pizza here:

Bonus: Which is larger: 3/8 or 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 • 4 • 6 • 9
B	10 • 20 • 30 • 35
C	15 • 25 • 35 • 42
D	8 • 16 • 24 • 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 × 5 = 25 Correct / Incorrect Correct answer: _____

Emma: 18 ÷ 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÷3	17	18	19	20
21	22	23	1/2 of 10	24	25
26	27	28	29	30	

Challenge cards: 2×4 = ____ 20−7 = ____ 18÷3 = ____ 1/2 of 10 = ____

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: 3/4 or 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 × 6 = _____

LOCK 4: 24 ÷ 4 = _____

LOCK 5: What is 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, 1=A, 20=T, 8=H, 6=F, 21=U, 14=N → MATHFUN.

2. Number Detective

A=24; B=46; C=37; 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

2/4, 3/8, 1/4, 5/8. 5/8 is larger than 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 1/2 > 1/4.

18. Roll, Solve & Win

8,13,6,5.

20. Escape Puzzle

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