

Grade 1

Problem Solving & Reasoning

Read • Think • Choose • Solve

Name: _____ Date: _____

■ Little Maths Detective ■

Page 2 — Read, Think & Solve

Read each problem carefully. Decide what you need to do.

1. Mia has 5 red pencils and 3 blue pencils. How many pencils does she have altogether?

2. There are 9 birds on a tree. 4 fly away. How many birds are left? _____

3. Sam has 7 stickers. His friend gives him 5 more. How many stickers does Sam have now?

4. There are 12 apples. 2 are eaten. How many apples are left? _____

Circle the operation you used for Question 1: + –

Circle the operation you used for Question 2: + –

Page 3 — Missing Information

Find the missing number.

1. There are ____ children on the bus. 3 more get on. Now there are 10. How many were there first?

2. Lily has 15 crayons. She gives away ____ crayons and has 10 left. How many did she give away?

3. A box has 8 balls. Some more are added. Now there are 13. How many were added? _____
4. There are 16 books. Some are taken away and 11 remain. How many were taken away? _____

Think: Did you add or subtract to find each missing number?

Page 4 — Compare & Decide

Use the clues to answer.

- 1. Tom has 8 marbles. Ben has 12 marbles. Who has more? _____
- 2. How many more marbles does Ben have? _____
- 3. Sara has 15 books. Ana has 10 books. Who has fewer? _____
- 4. How many fewer books does Ana have? _____
- 5. A basket has 9 oranges and another basket has 9 apples. Are there more oranges or more apples? _____
- 6. Explain your answer to Question 5 in one sentence: _____

Page 5 — Choose the Right Number

Read the problem and choose the number that makes sense.

1. A child has 6 balloons and gets 4 more. How many balloons now?

A) 2 B) 10 C) 14

2. There are 14 cookies. 5 are eaten. How many are left?

A) 9 B) 19 C) 10

3. A class has 8 boys and 7 girls. How many children altogether?

A) 1 B) 15 C) 16

4. There are 18 books. 8 are put away. How many remain?

A) 10 B) 26 C) 8

Page 6 — Two-Step Problems

Solve the problem in two steps. Write your working.

1. Noah has 5 red blocks and 4 blue blocks. He gets 3 green blocks. How many blocks does he have altogether? _____

Working: _____

2. Emma has 15 stickers. She gives 5 to her friend and then gets 2 new stickers. How many stickers does she have now? _____

Working: _____

3. There are 6 birds on a fence. 4 more arrive, then 3 fly away. How many birds are there now? _____

Working: _____

Page 7 — Find the Pattern & Reason

Use the clues to find the answer.

1. I am greater than 5 and less than 8. I am an even number. What number am I? _____
2. I am greater than 10 and less than 15. I am odd. What numbers could I be?

3. I have 3 sides. I have 3 corners. What shape am I? _____
4. I am a number between 14 and 18. I am even. What numbers could I be? _____
5. I am 2 more than 7. What number am I? _____
6. I am 5 less than 20. What number am I? _____

Page 8 — Maths Detective

Read the clues. Find the mystery number.

Mystery Number 1

- I am greater than 10.
- I am less than 20.
- I am even.
- I am 2 more than 12.

Answer: _____

Mystery Number 2

- I am less than 10.
- I am greater than 4.
- I am odd.
- I am 2 less than 9.

Answer: _____

Mystery Shape

- I have 4 sides.
- I have 4 corners.
- All my sides are the same length. What shape am I?

Answer: _____

Page 9 — Which One Does Not Belong?

Look at each group. Circle the one that does not belong and explain why.

1. 2, 4, 6, 8, 11

Odd one: _____ Why? _____

2. Circle, Square, Triangle, Rectangle, Apple

Odd one: _____ Why? _____

3. 5, 10, 15, 20, 23

Odd one: _____ Why? _____

4. 7, 9, 11, 13, 16

Odd one: _____ Why? _____

Page 10 — Super Reasoning Challenge

Show what you know!

1. A shop has 10 toy cars. 4 are sold. Then 3 new cars arrive. How many toy cars are there now?

2. There are 6 red flowers, 5 yellow flowers and 4 white flowers. How many flowers altogether?

3. Ava has 18 sweets. She gives the same number to 3 children. How many sweets does each child get? _____

4. I am thinking of a number. It is between 5 and 10. It is odd and greater than 7. What number am I? _____

5. Ben has 12 pencils. He has 3 more pencils than Mia. How many pencils does Mia have? _____

6. Create your own maths problem using the numbers 8 and 5. Then solve it.

Page 11 — Teacher Answer Key

Page 2: 8, 5, 12, 10. Q1 addition; Q2 subtraction.

Page 3: 7, 5, 5, 5.

Page 4: Ben; 4; Ana; 5; same; because both groups have 9.

Page 5: 1) B—10 2) A—9 3) B—15 4) A—10.

Page 6: 1) 12 2) 12 3) 7.

Page 7: 1) 6 2) 11, 13 3) Triangle 4) 16, 18 5) 9 6) 15.

Page 8: Mystery Number 1 = 14. Mystery Number 2 = 7. Mystery Shape = Square.

Page 9: 1) 11—only odd number 2) Apple—not a 2D shape 3) 23—not a multiple of 5 4) 16—not odd.

Page 10: 1) 9 2) 15 3) 6 4) 9 5) 9 6) Answers vary; the problem and solution should be mathematically correct.