ADDITION

A Complete Mathematics Worksheet Pack

Learn • Practise • Apply • Reason

CONCEPTS	SKILLS	APPLICATION
Combining quantities Counting on Place value	Addition facts Mental strategies Regrouping	Word problems Estimation Reasoning

Flexible, non-grade-specific mathematics resource

Name: _____ Date: _____

1. Understanding Addition

Addition means putting quantities together to find how many there are altogether.

1. There are 4 red counters and 3 blue counters. How many counters are there altogether? _____

2. 6 birds are sitting on a tree. 5 more birds arrive. How many birds are there now? _____

3. A basket has 8 apples. 4 more apples are added. How many apples are in the basket? _____

4. There are 7 pencils on one desk and 6 on another. How many pencils are there altogether? _____

5. A child has 9 stickers and receives 5 more. How many stickers does the child have now? _____

6. 12 books are on a shelf. 7 more books are placed there. How many books are on the shelf? _____

Think: What changes when two groups are joined? What stays the same?

_____

_____

2. Counting On & Number Lines

You can add by starting with the greater number and counting forwards.

1. Start at 8 and count on 4: 8, ____, ____, ____, ____. So 8 + 4 = ____.

2. Start at 13 and count on 5: 13, ____, ____, ____, ____, ____. So 13 + 5 = ____.

3. Complete: 17 + 3 = ____; 24 + 4 = ____; 31 + 6 = ____.

4. Which is easier to start with when adding 6 + 15? Explain. _____

5. Use counting on to solve: 28 + 5 = ____; 39 + 4 = ____; 46 + 7 = ____.

6. Draw jumps on a number line to show 16 + 7. Write the answer: ____.

Challenge: Write your own addition question that you can solve by counting on.

_____
_____

3. Number Bonds & Making Tens

Number bonds show how numbers can be split into parts. Making a ten can make addition easier.

Number	Part 1	Part 2
10	**6**	_____
10	_____	**3**
10	**8**	_____
10	_____	**5**
20	**12**	_____
20	_____	**7**
100	**60**	_____

1. Complete: 8 + 5 = 8 + 2 + ____ = ____.

2. Complete: 9 + 6 = 9 + 1 + ____ = ____.

3. Find the missing part: 7 + ____ = 10; 14 + ____ = 20; 65 + ____ = 100.

4. Use a number bond to solve 26 + 7. Show how you make the next ten.

5. Find two different pairs of numbers that add to 15.

Think: Why can making a ten help you add mentally?

_____
_____

4. Addition Sentences & Place Value

A number can be split into tens and ones to make addition easier.

1. Write an addition sentence: 23 and 14 are put together. _____

2. Complete: 32 = ____ tens + ____ ones; 47 = ____ tens + ____ ones.

3. Write in expanded form: 26 + 13 = (20 + 6) + (10 + 3).

4. Add the tens and ones separately: 34 + 22 = (30 + 20) + (4 + 2) = ____.

5. Solve: 41 + 26 = ____; 53 + 15 = ____; 62 + 17 = ____.

6. Write 125 as hundreds, tens and ones: ____ + ____ + ____.

7. Solve using place value: 124 + 32 = ____.

Challenge: Explain how place value helps when adding two-digit numbers.

_____

_____

5. Addition Strategies

You can break numbers apart, change the order, or adjust numbers to make addition easier.

1. Break apart to solve: 35 + 12 = 35 + 10 + 2 = ____.

2. Use a friendly number: 48 + 7 = 50 + ____ = ____.

3. Solve by adding tens first: 27 + 36 = 27 + 30 + 6 = ____.

4. Use compensation: 39 + 25 = 40 + 25 – 1 = ____.

5. Choose a strategy and solve: 56 + 18 = ____.

6. Solve in two different ways: 46 + 27 = ____.

7. Which strategy would you use for 199 + 36? Explain briefly.

Reason: Is there only one correct way to add two numbers? Explain.

_____

_____

6. Addition Facts Practice

Practise addition facts to build speed, accuracy and confidence.

4 + 3 = ____	**8 + 5 = ____**	**9 + 6 = ____**
7 + 7 = ____	**12 + 6 = ____**	**15 + 5 = ____**
18 + 4 = ____	**23 + 7 = ____**	**16 + 9 = ____**
25 + 15 = ____	**34 + 20 = ____**	**46 + 30 = ____**
28 + 12 = ____	**55 + 25 = ____**	**67 + 13 = ____**

Confidence check: I can solve addition facts quickly / I need more practice.

Which facts do you want to practise again? _____

7. Missing Numbers

Find the missing number that makes each addition sentence true.

1. 8 + ____ = 15 2. ____ + 6 = 14

3. 23 + ____ = 30 4. ____ + 18 = 40

5. 35 + ____ = 50 6. ____ + 27 = 60

7. 46 + ____ = 100 8. ____ + 35 = 82

9. 125 + ____ = 200 10. ____ + 64 = 150

11. 275 + ____ = 400 12. ____ + 125 = 300

Reasoning: Write an addition equation that proves your answer to Question 10.

_____

_____

8. Addition with Regrouping

When a place-value column makes 10 or more, regroup 10 ones as 1 ten (or 10 tens as 1 hundred).

1. 28 + 17 = ____

2. 36 + 29 = ____

3. 47 + 38 = ____

4. 125 + 48 = ____

5. 267 + 156 = ____

6. 384 + 279 = ____

7. 1,458 + 367 = ____

8. 2,675 + 1,849 = ____

Show your working: Choose two questions above and solve them using the vertical method.

_____
_____
_____
_____
_____

Think: Why do we regroup 10 ones as 1 ten?

_____
_____

9. Addition in Real Life

Read each situation carefully. Decide what quantities need to be added.

1. A class collected 128 books on Monday and 96 on Tuesday. How many books were collected altogether? _____

2. A shop sold 245 notebooks in the morning and 178 in the afternoon. How many notebooks were sold? _____

3. A family travelled 135 km on Saturday and 168 km on Sunday. What distance did they travel in total? _____

4. A library has 1,245 storybooks and 875 reference books. How many books are there altogether? _____

5. Riya saved ■275 in one month and ■350 the next month. How much did she save? _____

6. A school has 486 students in one section and 527 in another. Find the total number of students. _____

7. A stadium had 2,350 people in the first session and 1,875 in the second. How many people attended in all? _____

Challenge: Write a real-life addition word problem of your own and solve it.

_____
_____
_____

10. Addition Detective — Reasoning

Read carefully. Explain your thinking, not just your answer.

1. Sam says: “38 + 27 = 55.” Is Sam correct? If not, find and explain the mistake.

2. Mia adds 49 + 26 by doing 50 + 26. What must she do to correct her answer?

3. The sum of two numbers is 100. One number is 64. What is the other number?

4. I am between 200 and 300. I end in zero and I am 75 more than 200. What number am I?

5. Which is greater: 125 + 78 or 130 + 72? Show your thinking.

6. Three numbers add to 60. Two of them are 15 and 25. Find the third number.

7. Create two different addition sentences with a sum of 48.

_____

_____

11. Mixed Addition Challenge

Use any efficient strategy. Show working where needed.

1. 96 + 48 = ____ 2. 175 + 225 = ____ 3. 348 + 176 = ____

4. 509 + 287 = ____ 5. 1,275 + 968 = ____ 6. 3,456 + 2,789 = ____

7. Write two different addition equations with a sum of 75.

8. A number plus 145 equals 500. What is the number? ____

9. Which has the greater sum: 245 + 375 or 310 + 305? ____

10. Estimate 398 + 207 by rounding to the nearest hundred. Then find the exact sum.

11. Write a word problem for 125 + 275 = 400.

12. Super Challenge: Use the digits 2, 4, 6 and 8 once each to make two two-digit numbers with the greatest possible sum. What is the sum?

_____
_____
_____

Teacher Answer Key

Page 2 – Understanding Addition: 1) 7 2) 11 3) 12 4) 13 5) 14 6) 19. Think: the two groups combine; the total is the sum.

Page 3 – Counting On & Number Lines: 1) 9, 10, 11, 12; 12 2) 14, 15, 16, 17, 18; 18 3) 20, 28, 37 4) Start at 15; it is the greater number 5) 33, 43, 53 6) 23.

Page 4 – Number Bonds & Making Tens: Table blanks: 4, 7, 2, 5, 8, 13, 40. Q1) 3, 13 Q2) 5, 15 Q3) 3, 6, 35 Q4) 26+4+3=33 Q5) examples: 7+8 and 10+5.

Page 5 – Addition Sentences & Place Value: 1) 23+14=37 2) 3 tens, 2 ones; 4 tens, 7 ones 3) 39 4) 56 5) 67, 68, 79 6) 100+20+5 7) 156.

Page 6 – Addition Strategies: 1) 47 2) 50+5=55 3) 63 4) 64 5) 74 6) 73 (e.g. 46+20+7 or 40+30+6–3) 7) e.g. 200+36–1=235. Reason: different valid strategies can give the same sum.

Page 7 – Addition Facts Practice: 7, 13, 15, 14, 18, 20, 22, 30, 25, 40, 54, 76, 40, 80, 80.

Page 8 – Missing Numbers: 1) 7 2) 8 3) 7 4) 22 5) 15 6) 33 7) 54 8) 47 9) 75 10) 86 11) 125 12) 175. Q10 proof: 86+64=150.

Page 9 – Addition with Regrouping: 1) 45 2) 65 3) 85 4) 173 5) 423 6) 663 7) 1,825 8) 4,524.

Page 10 – Addition in Real Life: 1) 224 books 2) 423 notebooks 3) 303 km 4) 2,120 books 5) ■625 6) 1,013 students 7) 4,225 people.

Page 11 – Addition Detective: 1) No; 38+27=65. 2) Subtract 1 from 76; answer 75. 3) 36. 4) 275. 5) 125+78=203; 130+72=202, so 203 is greater. 6) 20. 7) Answers vary, e.g. 20+28 and 30+18.

Page 12 – Mixed Addition Challenge: 1) 144 2) 400 3) 524 4) 796 5) 2,243 6) 6,245 7) Answers vary 8) 355 9) 245+375=620, 310+305=615; first is greater 10) Estimate 600; exact 605 11) Answers vary 12) 84 + 62 = 146 (also 82 + 64 = 146).