



SOLVE ADDITION.
SUBTRACTION.
MULTIPLICATION &
DIVISION PROBLEMS

AC9M4N08

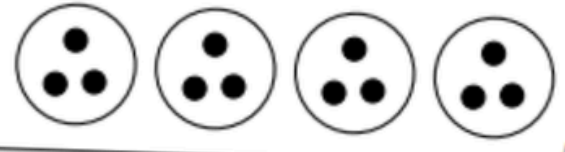
MULTIPLICATION & DIVISION

TRUE OR false

Cut out the problem cards and sort them according to whether they are true or false. Before gluing them, arrange the cards in each column from least to greatest.

TRUE	FALSE

This diagram represents 9 divided by 3



12 ÷ 6 is the same as 12 - 6 - 6 = 0

Keep scrolling to see what's included!

LOOKING FOR AN ENGAGING WAY TO TEACH SOLVING PROBLEMS INVOLVING ADDITION, SUBTRACTION, MULTIPLICATION, AND DIVISION?

♥ All six activities are aligned to the outcome: **(AC9M4N08)**

♥ Tasks range in difficulty from easy to challenging!

♥ Activities are interactive, hands-on, and FUN!



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NUMBER PROBLEM SOLVING THINKER'S *keys*

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THE ALPHABET KEY

List as many words as you can from A to Z that relate to addition, subtraction, multiplication and division

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THE ANSWER KEY

If the answer is: \$120 a month, what might the question be?

Think of 5 possibilities.

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THE BRAINSTORMING KEY

Brainstorm all the real life situations where you must know how to add, subtract, multiply and divide

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THE VARIATIONS KEY

$A + B + C = 135$ books

What might the missing values and genre of books be?

Think of at least 10 variations

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THE CONSTRUCTION KEY

Create a shopping list

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THE INTERPRETATIONS KEY

Your friend is organising their closet

LOOKING FOR AN ENGAGING WAY TO TEACH SOLVING PROBLEMS INVOLVING ADDITION. SUBTRACTION. MULTIPLICATION. AND DIVISION?



NO planning required for outcome **AC9M4N08**



No prep, just print and go!



Aligns perfectly to the **Year 4 Mathematics Test FULL YEAR Mega Bundle**



AC9M4N08
MATHEMATICAL MODELLING **MATHS match**
PROBLEM CARDS

Find the card that shows the correct working out to solve this problem

Sarah buys t-shirts in packets of 3. How many t-shirts does she have if she buys 4 packets?

Find the card that shows the correct working out to solve this problem

AC9M4N08
MATHEMATICAL MODELLING **MATHS match**
PROBLEM CARDS

3×4	20×5
$6 - 5$	18×2

INCLUDES ALL THESE AND MORE!

AC9M4N08

MODELLING ADDITION & SUBTRACTION

TRUE OR false

PROBLEM CARDS

The missing number in the part-part-whole diagram is 9

A

The missing number in the part-part-whole diagram is 32

The bar model below shows $25 - 20 = 5$

C

The missing number in the bar model is 20

A train had 458 passengers when it left Central Station, and 343 passengers when it reached Town Hall. To calculate the number of passengers who got off, you would complete: $458 + 343 = 801$

E

There were 215 people at a swimming pool. 120 more arrived. To calculate how many people were at the pool, you would complete: $215 + 120 = 335$

A sports shop had 580 soccer balls and sold 275. To work out how many soccer balls are left, you would complete: $580 - 275 = 305$

G

There were 215 people at a swimming pool. 120 more arrived. To calculate how many people were at the pool, you would complete: $215 + 120 = 335$

Calculate the time it took each of the four runners in a relay, if they ran the same speed

G

AC9M4N08

SUBTRACTION OR DIVISION?

SUPER sort

PROBLEM CARDS

PROBLEM

Find how many more kids like apples than grapes

WORKING OUT

A

PROBLEM

Find the difference in the number of PET bottles collected by 4A and 4B

WORKING OUT

B

PROBLEM

Find the number of shelves needed to store 48 new video games with 6 games on each shelf

C

PROBLEM

Find the remaining balance when a \$17.50 book is bought using a \$50.00 gift card

D

PROBLEM

A box contains 60 pieces of chalk. If they are grouped evenly into 5 colours, how many pieces are there for each colour?

E

PROBLEM

Calculate the budget left after spending \$59 from \$95

F

PROBLEM

Calculate the time it took each of the four runners in a relay, if they ran the same speed

WORKING OUT

G

PROBLEM

Find how many 8-seater minivans the school needs to transport 72 students to the local museum

WORKING OUT

H

AC9M4N08

NUMBER PROBLEM SOLVING

WOULD YOU rather

Read the word problems then colour the box to show if you prefer option A or option B. Explain your thinking behind each decision.

WOULD YOU RATHER...

OPTIONS

A OR B

Earn 95 points then 75 points in a game

Earn 85 points then 88 points in a game

A OR B

Sell a 25 cups of slime for \$3 each

Sell 20 cookies for \$4 each

A OR B

Have 95 jellybeans and give 23 away

Have 78 jellybeans and give 18 away

A OR B

Share 45 colouring pens equally among 5 friends

Share 28 colouring pencils equally among 4 friends

AC9M4N08

NUMBER SENTENCES

maths MAZE

Study the problems in the maze and choose the correct number sentence. Each answer will lead you to the next problem. To keep track of your answers, colour your way from start to finish, recording the letter sequence you followed in the table below.

START

A: John saves \$12 every week for 5 weeks

B: Joe spends double the \$20 budget

C: Form 5 teams of 8 to play a game

D: TOTAL BOOKS READ

Fantasy	###
Mystery	###

E:

F: Remove 9 from a bag of 17 apples

G:

H:

I:

J:

K: Sell 25 cookies for \$5 each

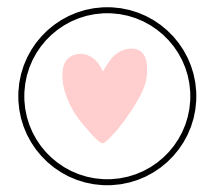
FINISH

A

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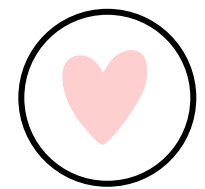
CONTENTS

What's included in this pack?

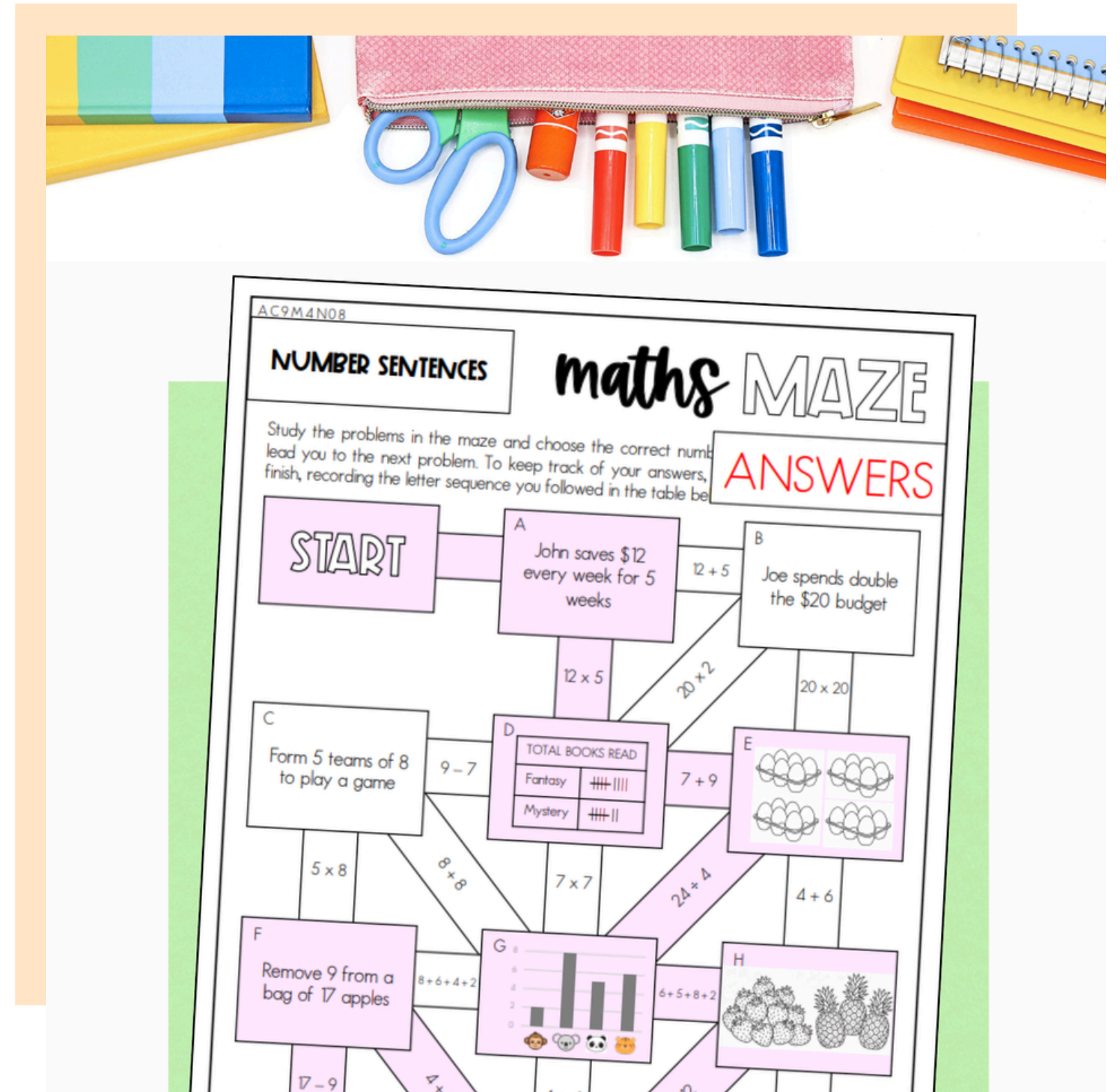


Eight engaging activities for the outcome **AC9M4N08**:

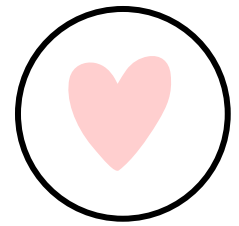
- + 2 True or False
- + Maths Match
- + 2 Super Sort
- + Maths Maze
- + Would You Rather?
- + Thinker's Keys



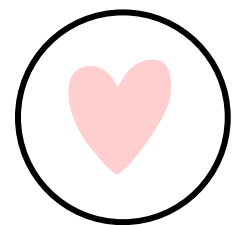
Answer Key for teachers



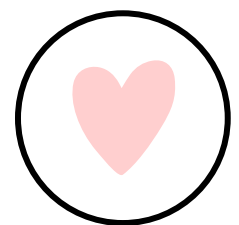
HOW YOU CAN USE THIS RESOURCE




Simply print the activities and distribute them to students—**no prep required**



Assign tasks according to students' abilities, from easy to challenging, to build understanding progressively



Reinforce learning and track student progress



AC9M4N08

ADDITION OR MULTIPLICATION? **SUPER sort**

Solve each problem card then sort them according to whether the operation needed was addition or multiplication. Before gluing, arrange the cards in alphabetical order.

ADDITION		MULTIPLICATION	
PROBLEM	WORKING OUT	PROBLEM	WORKING OUT
Calculate the total number of seats when there are 5 rows of 6 desks	A	Calculate the number of people currently at a party when 13 arrived early and 8 arrived late	B
PROBLEM	WORKING OUT	PROBLEM	WORKING OUT
The total number of pizza slices if there are 7 pizzas and each are divided into 8 pieces	C	The total number of cars Alex owns when she has 6 red and 15 blue	D

LOOKING FOR MORE?



Take the stress out of assessment with the **Number & Algebra Test Pack**, complete with ready-to-use pre and post-tests, simple tracking spreadsheets, and full V9.0 curriculum alignment!

YEAR 4

NUMBER & ALGEBRA TEST PACK

THE SYDNEY TEACHER

NUMBER Name: _____ Date: _____
Outcome AC9M4N03 find equivalent representations of fractions, denominators and make connections between fractions and decimals

PRE TEST Term: 1 2 3 4 Week: 1 2 3 4 5 6

1. Use the models to find the equivalent fractions and record the results.

a) $\frac{1}{2} = \frac{\square}{4}$ b) $\frac{4}{6} = \frac{\square}{3}$ c) $\frac{\square}{8} = \frac{3}{4}$

2. Use the fractions wall to find equivalent fractions for the following.

a) $\frac{1}{2} = \frac{\square}{6}$ b) $\frac{2}{3} = \frac{\square}{6}$

c) $\frac{6}{8} = \frac{\square}{8}$ d) $\frac{8}{10} = \frac{\square}{10}$

3. Colour the bars.

ALGEBRA Name: _____ Date: _____
Outcome AC9M4A01 find unknown values in numerical equations involving addition and subtraction, using the properties of numbers and operations

POST TEST Term: 1 2 3 4 Week: 1 2 3 4 5 6 7 8 9 10 11

1. Find the missing numbers needed to complete the addition number sentences, showing all working out in the space provided.

a) $10 + \square = 30$ b) $72 + \square = 100$ c) $\square + 143 = 276$

2. Find the missing numbers needed to complete the subtraction number sentences, showing all working out in the space provided.

a) $10 - \square = 3$ b) $109 - \square = 43$ c) $\square - 76 = 563$

3. Find the missing numbers needed to balance the number sentences, showing all working out in the space provided.

a) $412 + 391 + 678 + \square$ b) $799 - 342 - 428 + \square$

22 PRINTABLE TESTS