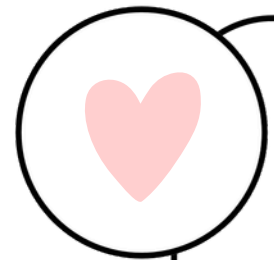


OPEN-ENDED MATHS WARM UP SLIDES

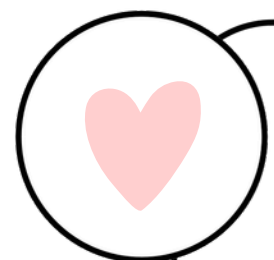
Keep scrolling to see
what's included!

The image shows a laptop screen with a digital interface. On the left is a circular wheel divided into 30 colored segments, each labeled with a number from 1 to 30. A black arrow points to the segment labeled '20'. In the center of the wheel is a black circle with the text 'START & STOP' in white. To the right of the wheel is a grid of 30 numbered buttons, arranged in 6 rows and 5 columns. The buttons are color-coded: 1-5 (yellow), 6-10 (blue), 11-15 (green), 16-20 (orange), 21-25 (pink), and 26-30 (light blue). Above the grid is a black box with white text: 'Click on the 'start & stop' button to select a number at random'.

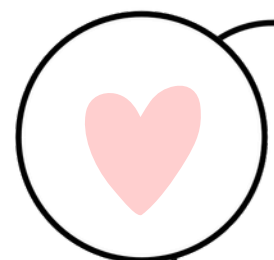
WHAT IF YOUR MATHS LESSONS KICKED OFF WITH SMILES. NOT SIGHS?



30 open-ended maths warm ups
covering key number concepts



Slides are fully editable, allowing you to
add, delete and change the questions



Activities are open-ended as well as
low floor, high ceiling, providing
opportunities for creative thinking



WHAT'S MY NUMBER?

9


$\star \times \bullet = 50$


What might \star and \bullet be?

How many different answers can you think of?

THE SYDNEY TEACHER

INCLUDES ALL THESE AND MORE!


 **WIPE OUT**


1 

Write down 6 single-digit numbers.

When your teacher calls out a question, wipe off any number that matches the answer.

The student who has wiped off all 6 numbers wins!

 **BROKEN CALCULATOR**


10 


Sally has a calculator with a broken 4 key.

How could she use her calculator to find the answer to 34×42 without using the 4?

Brainstorm as many possible answers as possible.

THE SYDNEY TEACHER


 **101**


12 

Students will work in 2 teams, taking turns to roll a die.

On their turn, each team will decide whether to keep the dice value as is, or multiply by 10.

In each round, the team with the highest score wins.

 **WHAT COULD IT BE?**

28 




I am thinking of a number that is...

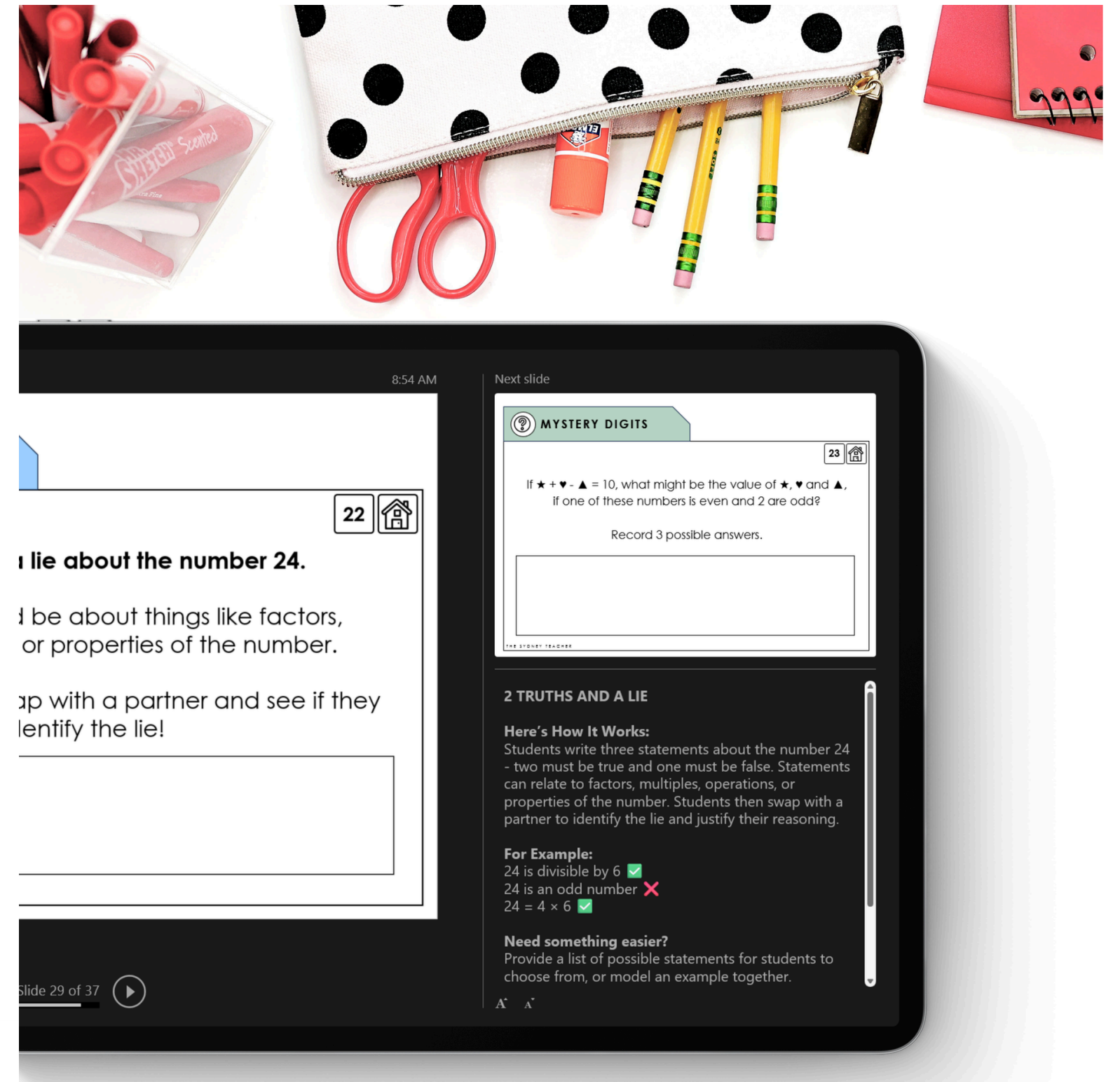
- is greater than 100
- is a multiple of 5
- has a digit sum of 10

How many different answers can you find?

THE SYDNEY TEACHER

WHAT'S INCLUDED?

-  30 open-ended maths warm ups covering key number concepts
-  An interactive spinner a novel way to select your maths warm up for the day
-  Fully editable slides with teacher notes, answers and differentiated options for each activity



HOW DOES IT WORK?

- 1 Use the spinner in presentation mode: click “Start & Stop” on slide 7 to spin, click again to stop, then select the matching number to jump to that warm-up slide.
- 2 Each slide includes presenter notes with instructions, sample answers, and differentiation tips. View them by opening Slide Show and selecting Presenter View.
- 3 All slides are fully editable, so you can adapt activities to different levels and reuse them in various ways throughout the year!



HOW YOU CAN USE THIS RESOURCE

These Warm-Up Slides are perfect for...



Starting each lesson with the interactive spinning wheel to boost engagement



Using low-floor, high-ceiling tasks to support and challenge all learners



Quickly engaging students, activating prior knowledge, and setting a focused tone for the lesson!



TABLE OF CONTENTS

ACTIVITY NAME	ACTIVITY SUMMARY	SLIDE
Wipe Out	Solve equations and wipe off matching answers to clear all 6 numbers	8
Target Number	Use 7, 7, 1, 2, 1 to make a target of 100 using any operations	9
The Answer Key (48)	Create as many questions as possible that equal 48	10
This Is My Change	Create items and prices that result in 75c change	11
Last One Standing	Cross out digits based on place value clues until one player remains	12
Tell Me Something About	List facts and properties about the number 19	13
The Alphabet Key	Generate fraction-related ideas for each letter of the alphabet	14
What's the Date Today?	Use digits from today's date to create a total as close to 10 as possible	15
What's My Number?	Find numbers that multiply to make 50	16
Broken Calculator	Calculate 34×42 without using the digit 4	17
The Answer Key (Square)	Create questions where the answer is "square"	18
101	Roll a die and build a total as close to 101 without going over	19
Compare the Pair	Compare a triangle and square using a Venn diagram	20

THE SYDNEY TEACHER

HAVE YOU SEEN THIS?




Looking for a quick, engaging maths warm-up using Thinker's Keys? This **Mathematics Thinker's Keys** resource is perfect for sparking creativity, problem-solving, and discussion at the start of your lesson. Download now!

MATHEMATICS THINKER'S KEYS

THE SYDNEY TEACHER


FRACTIONS

Name: _____ THINKER'S KEYS

THE ALPHABET	THE VARIATIONS	THE PREDICTIONS
List as many words as you can from A to Z that relate to fractions	How many ways can you represent $\frac{3}{4}$ quarters?	What do you want to be when you grow up? Predict 5 ways you will use multiplication in this job.
THE PICTURE	THE QUESTION	THE BRAINSTORMING
Explain how this picture relates to fractions 	Write 5 complex word problems that equal $\frac{5}{8}$	Brainstorm and create a mind map showing all the strategies that can be used to solve multiplication problems
THE CONSTRUCTION	THE ALTERNATIVE	THE INTERPRETATION
Construct the longest paper chain you can in 15		A student believes $4 \times 5 = 9$. Provide an explanation for this thinking. How would you correct their understanding of multiplication?

MULTIPLICATION

Name: _____ THINKER'S KEYS

THE ALPHABET	THE VARIATIONS	THE PREDICTIONS
List as many words as you can from A to Z that relate to multiplication	\star is a multiple of both 5 and 6. What might \star be? How many different answers can you find?	What do you want to be when you grow up? Predict 5 ways you will use multiplication in this job.
THE PICTURE	THE QUESTION	THE BRAINSTORMING
Explain how this picture relates to multiplication 	Write 5 multiplication questions with a product of 200	Brainstorm and create a mind map showing all the strategies that can be used to solve multiplication problems
THE CONSTRUCTION	THE ALTERNATIVE	THE INTERPRETATION
Construct a multiplication match up game to test Year 5 and 6 students on their multiplication facts	Find 3 ways to calculate 24×43 on a calculator that has a missing 4 key	A student believes $4 \times 5 = 9$. Provide an explanation for this thinking. How would you correct their understanding of multiplication?

YEARS 5-6