







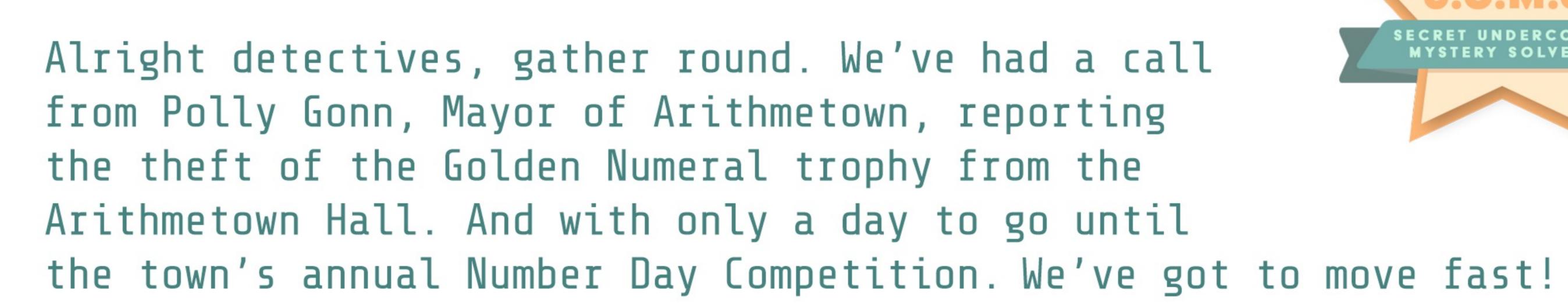


COMMS A

CHIEF INSPECTOR

RE: Suspect Elimination

To: SUMS Squad



The key witnesses have already been interviewed and four suspects have been identified. I need you to track the movements of these suspects and see if anyone can be eliminated.

We've got the data from the local surveillance company, Geome-track but of course, it's encrypted. This is Arithmetown after all! I trust it won't be a problem for our greatest mathematical minds. Report back when you know more.

Chief Inspector.



S.U.M.S



THIS YOUR REED

SUSPECT LIST

ARITHMETOWN MAP

GEOMETRACK DATA

THE MISSION

Each team will be tracking the movements of one suspect. If you're working in fewer teams, you'll need to track all of the suspects.

The Geometrack Data shows the movements of each suspect on the evening of the theft but two of the numbers are missing. Use the Encryption Key and spot the pattern in each sequence to uncover the missing number.

Once you've found the missing numbers, grab the map and make a cross to mark the first location of your suspect on the map. Now you can use the completed movement data to mark out the movements of your suspect.

When the movements of all four suspects have been marked on the map, you may notice that some of them never went to the Arithmetown Hall. Now you'll be able to eliminate at least one suspect!

NSPCC



Number Day 2024

DES SIMIEL

Des has been the runner up in the Number Day competition for the last three years. Perhaps he thought the only way he'd ever get his hands on that trophy was to steal it ...



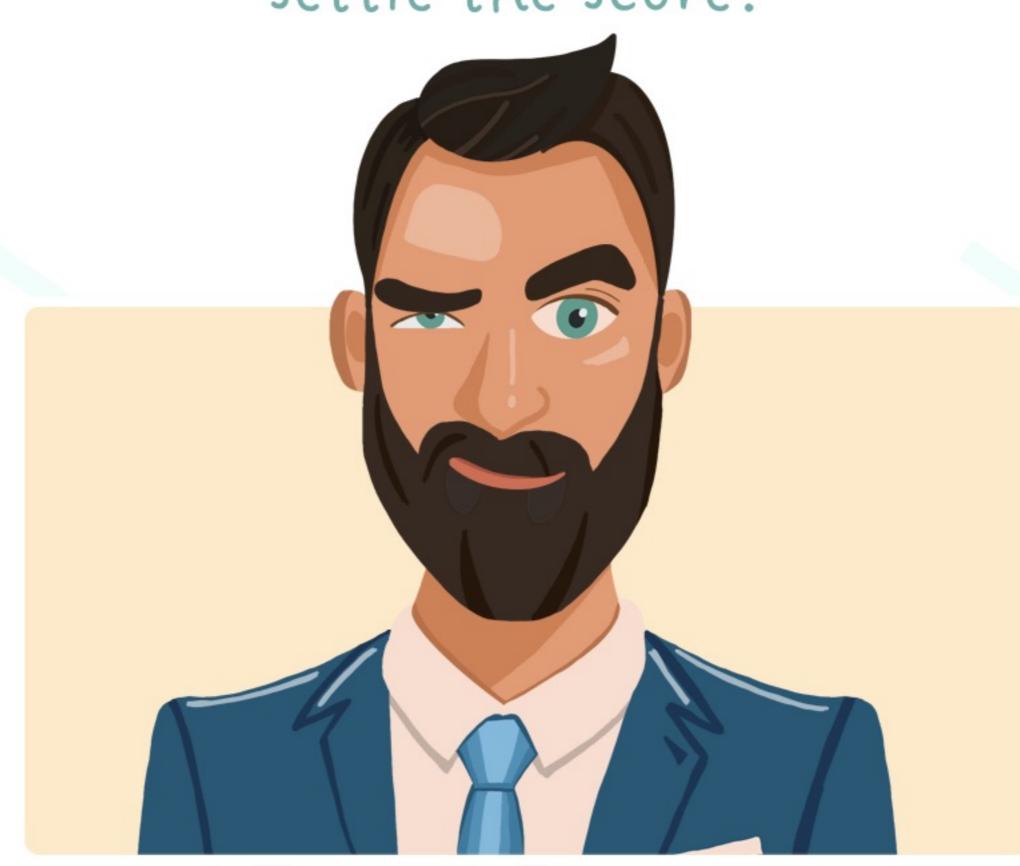
MILLIE MEETER

Ms Meeter is a dealer of precious metals and stones. Rumour has it that she's been left penniless in a costly lawsuit. Would she be interested in the valuable golden trophy?



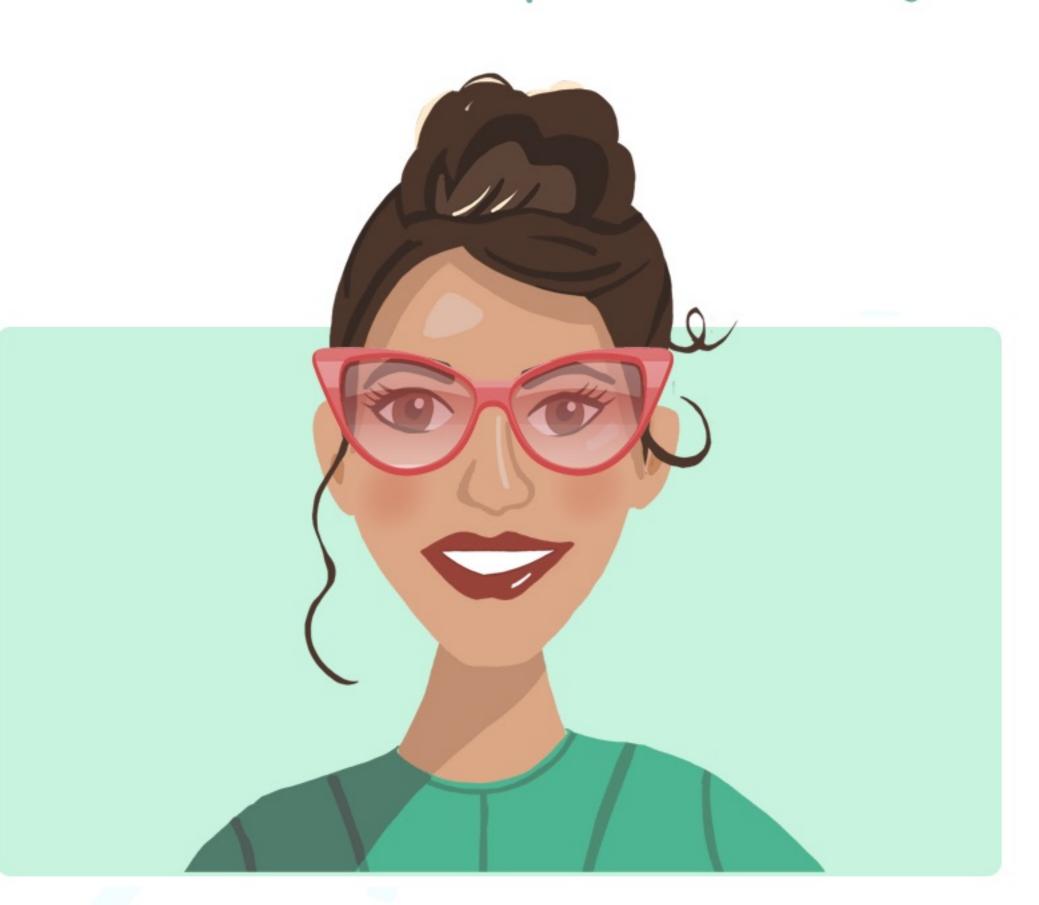
SOL LUCIAN

Lucian Inc. invests in every event in Arithmetown but the company has been left out of this year's Number Day celebrations. How far would CEO Sol Lucian go to settle the score?



TESSA LATE

The mayor of rival town Numbridge has never been able to put on an event to match the success of Arithmetown's Number Day. Would she stoop to sabotage?





GeOme_TrAck Suspect_1 😂



DES SIMMEL

FIRST LOCATED AT: J4

LOCATION: ARITHMETOWN

DATE: 01/02/2024

TIME: 09:00 - 23:00

MOVEMENTS: 2 BLOCKS EAST, 4 BLOCKS SOUTH, X BLOCKS WEST, 2 BLOCKS NORTH, 2 BLOCKS WEST, Y BLOCKS SOUTH

Encryption_Keys



GeOme_TrAck Suspect_2



SOL LUCIAN FIRST LOCATED AT: K12

LOCATION: ARITHMETOWN

DATE: 01/02/2024

TIME: 09:00 - 23:00

MOVEMENTS: 4 BLOCKS EAST, P BLOCKS NORTH, 5 BLOCKS WEST, Q BLOCKS SOUTH, 3 BLOCKS WEST

Encryption Keys



GeOme_TrAck Suspect_3



TESSA LATE FIRST LOCATED AT: D20

LOCATION: ARITHMETOWN

DATE: 01/02/2024

TIME: 09:00 - 23:00

MOVEMENTS: V BLOCKS NORTH, 1 BLOCK EAST, 2 BLOCKS NORTH, W BLOCKS EAST, 5 BLOCKS NORTH, 7 BLOCKS EAST

Encryption Keys



GeOme_TrAck Suspect_4



MILLIE METER FIRST LOCATED AT: Q9

LOCATION: ARITHMETOWN

DATE: 01/02/2024

TIME: 09:00 - 23:00

MOVEMENTS: 2 BLOCKS SOUTH, 5 BLOCKS WEST, 5 BLOCKS SOUTH, G BLOCKS WEST, 5 BLOCKS NORTH, H BLOCKS WEST, 2 BLOCKS NORTH

Encryption_Keys





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COMMS

CHIEF INSPECTOR

RE: Suspect Elimination

To: SUMS Squad

Squad,



Excellent work on eliminating a suspect, this makes our job far easier! I've just got word from Polly Gonn that the trophy cabinet at the Arithmetown Hall can only be accessed via Security Door 3 and the security guard who keeps watch over that door, Ray Dios, keeps a visitor log. Apparently he uses his own code (looks like he has a sweet tooth!) but he's not in today. I told her it'd be no match for the SUMS department. Oh, he also said that when he walked the corridor at 21:10, the trophy was still there but by 21:20 it was gone. Looks like we have our crime window! Take a look at the log and let me know what you find.

Keep up the great work!



S.U.M.S

OPUZZIE TWO

THIS WEED

VISITOR LOG

RAY'S CODE

THE MISSION

Each team will be uncovering the identity of two visitors. If you're working in fewer teams, you'll need to uncover all of the visitor identities.

The sweets in Ray's Code stand for numbers. Work out which numbers make all the sums correct to reveal the value of each sweet.

Once you have the correct values, enter them into the 'Value' column on the Visitor Log. Now you can use Ray's cheat sheet to work out which visitor belongs to which visitor ID.

Next, use the 'Time In' and 'Duration' columns to work out the time each visitor left. You might find that some of our remaining suspects weren't there during the crime window. Now you'll be able to eliminate at least one suspect!





01/02/2024 - EVENING SHIFT

Not much to report tonight. Plenty of time to work on my new code. Made myself a cheat sheet, just in case 1 forget who's who!

Julie: Even Square < 10
Bob: Sides of a pentagon Millie: Even Square > 10 Roxy: Fourth prime Sol: Even multiple of 3

Lou: First odd prime

Des: Odd Square

Sam: Vertices of a cube

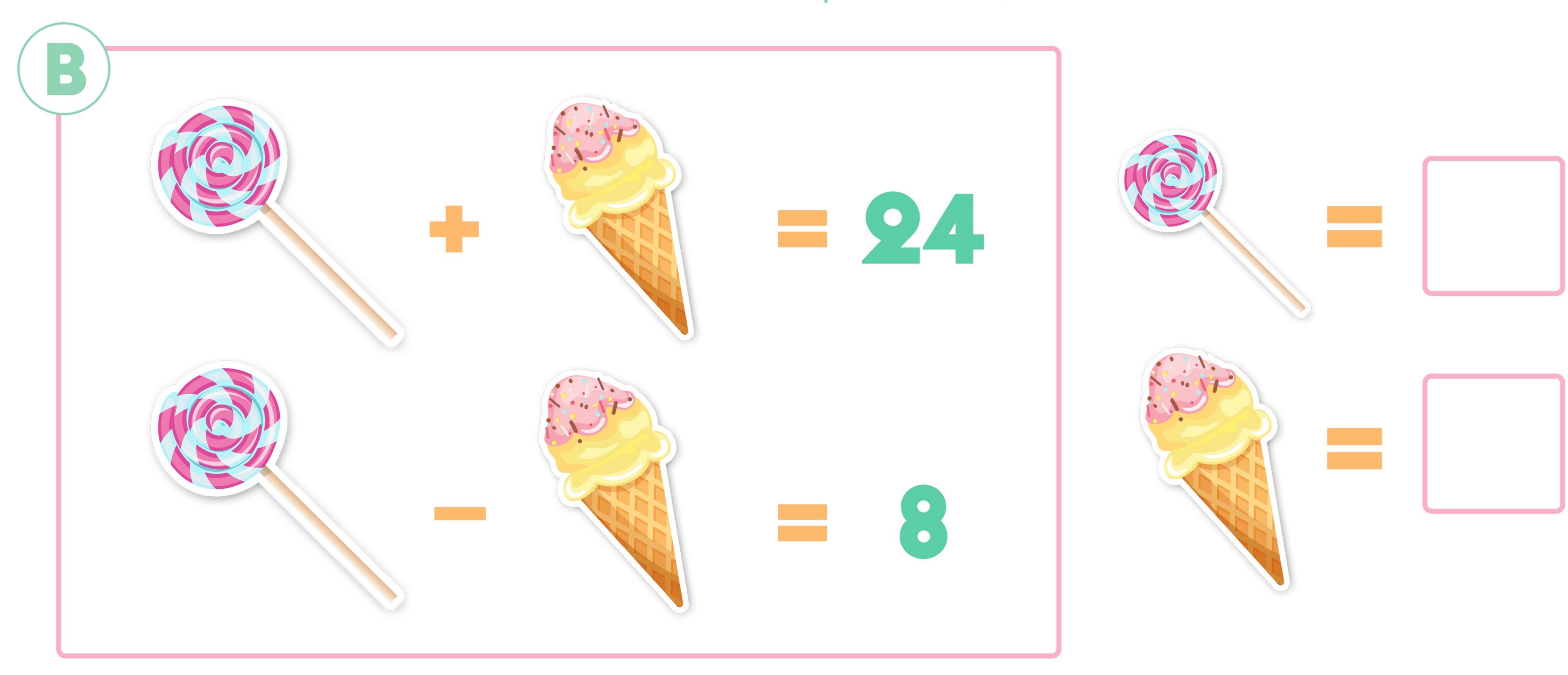
| VISITOR ID | VALUE | NAME | TIME IN | DURATION | TIME OUT |
|------------|-------|------|---------|-----------------|----------|
| | | | 19:25 | 90 _M | |
| | | | 20:15 | 45M | |
| | | | 20:20 | 32M | |
| | | | 20:25 | 50 _M | |
| | | | 20:39 | 30 _M | |
| | | | 20:44 | 35M | |
| | | | 20:58 | 14M | |
| | | | 21:01 | 6M | |



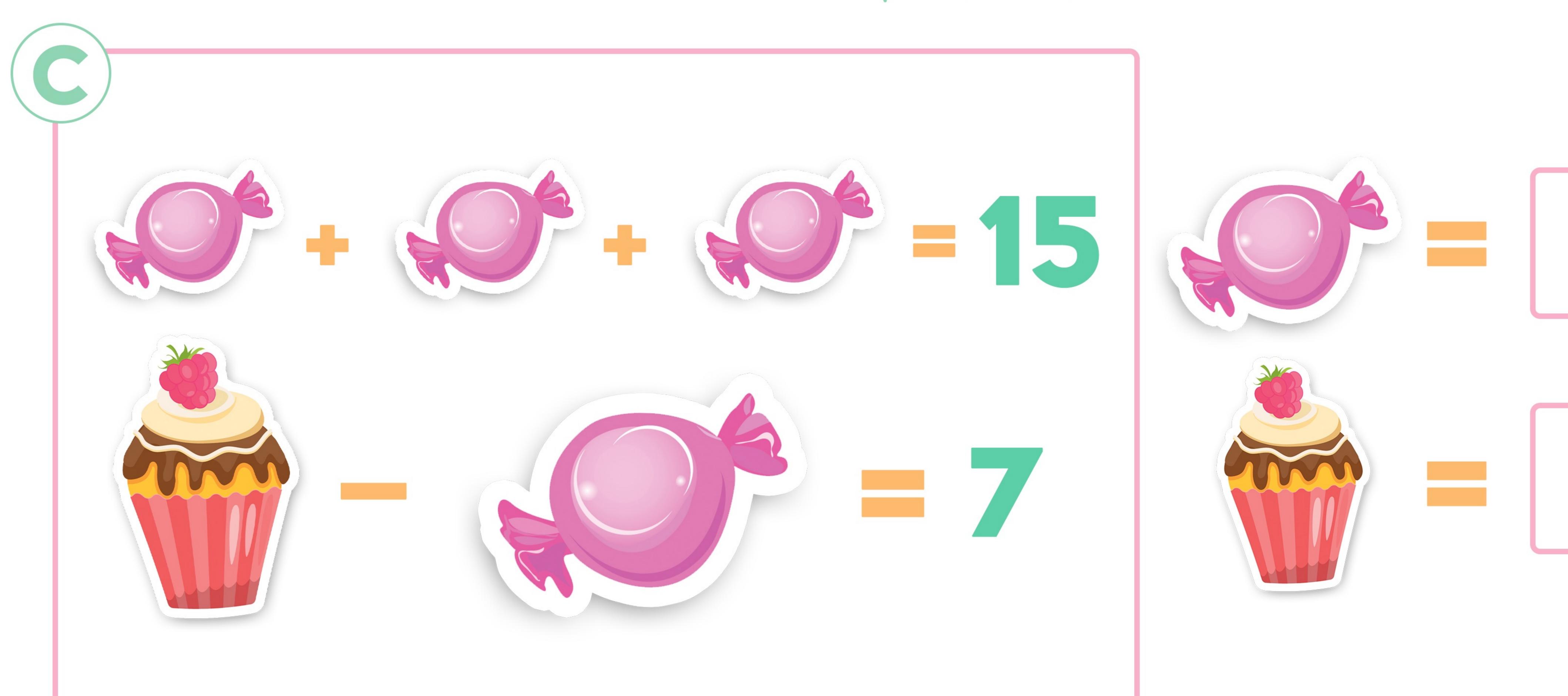


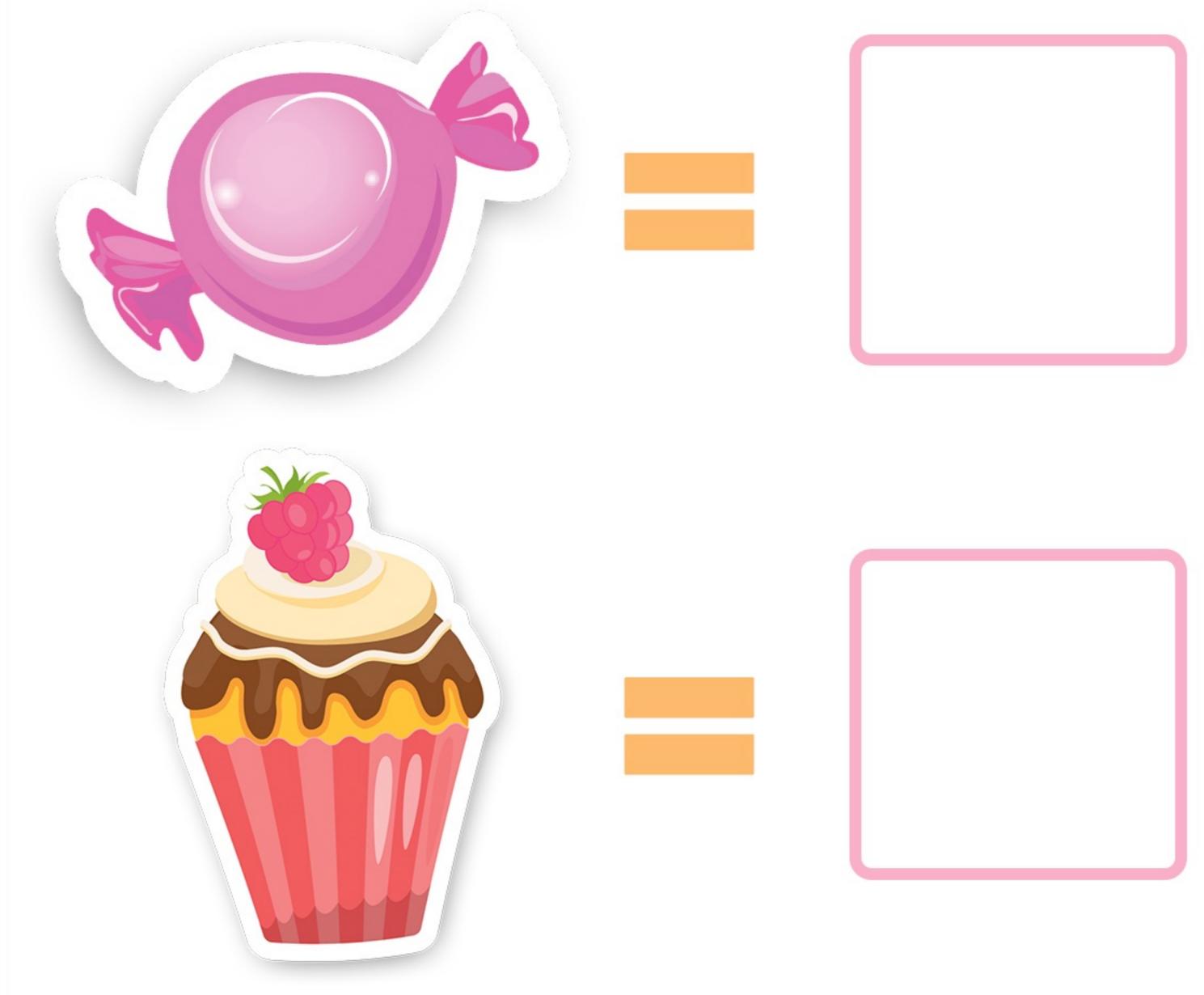


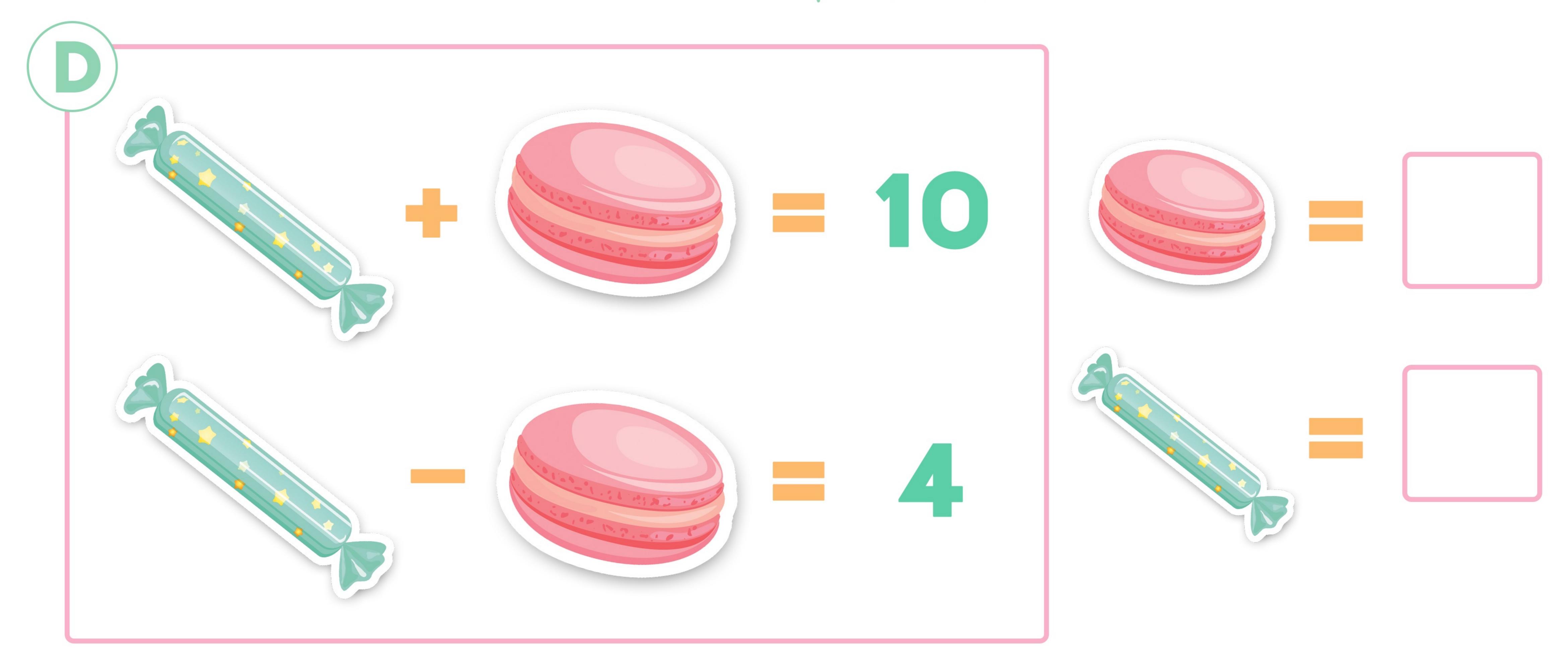














CHIEF INSPECTOR

RE: Another Suspect Down!!

To: SUMS Squad

Squad,



You're on fire today! Another suspect bites the dust. Or walks free, I guess. We just got the forensics report back and they found a torn bit of receipt inside the trophy cabinet for a purchase made in Arithmetown yesterday! (I've attached a copy).

Polly Gonn confirmed that she's the only one with the keys to the trophy cabinet and she didn't open it at all. That means whoever made the purchase stole the trophy! The good news is that we've already mapped our suspects' movements for the day. The weird news is that all company IDs are encrypted. Classic Arithmetown. I'll

leave it with you. The next time we speak, you'll be telling me who to put the cuffs on.

Date of Purchase: 01/02/2024

Arithmetown Compl.D: 書題 思想 思想



S.U.M.S

O PUZZZLE THREE O



CLOSE UP OF ID

ARITHMETOWN
COMPANY ID

ARITHMETOWN MAP

THE MISSION

Each team will decrypt one part of the ID. If you're working in fewer teams, you'll need to decrypt all four parts.

Locate the 'Start' square, answer the question and shade the route with the correct answer. Keep going until you reach the 'End' square. If a question doesn't seem to have a correct answer, something has gone wrong. Go back a step and check your answer.

When you've reached the end, you should notice that the path you've shaded resembles a number. Once you have all four numbers, check the Arithmetown Company ID List to see which company it refers to.

Now you know where the purchase was made. Check the movements that you marked on the Arithmetown map. The suspect who visited the company you identified is the thief. You've cracked the case!

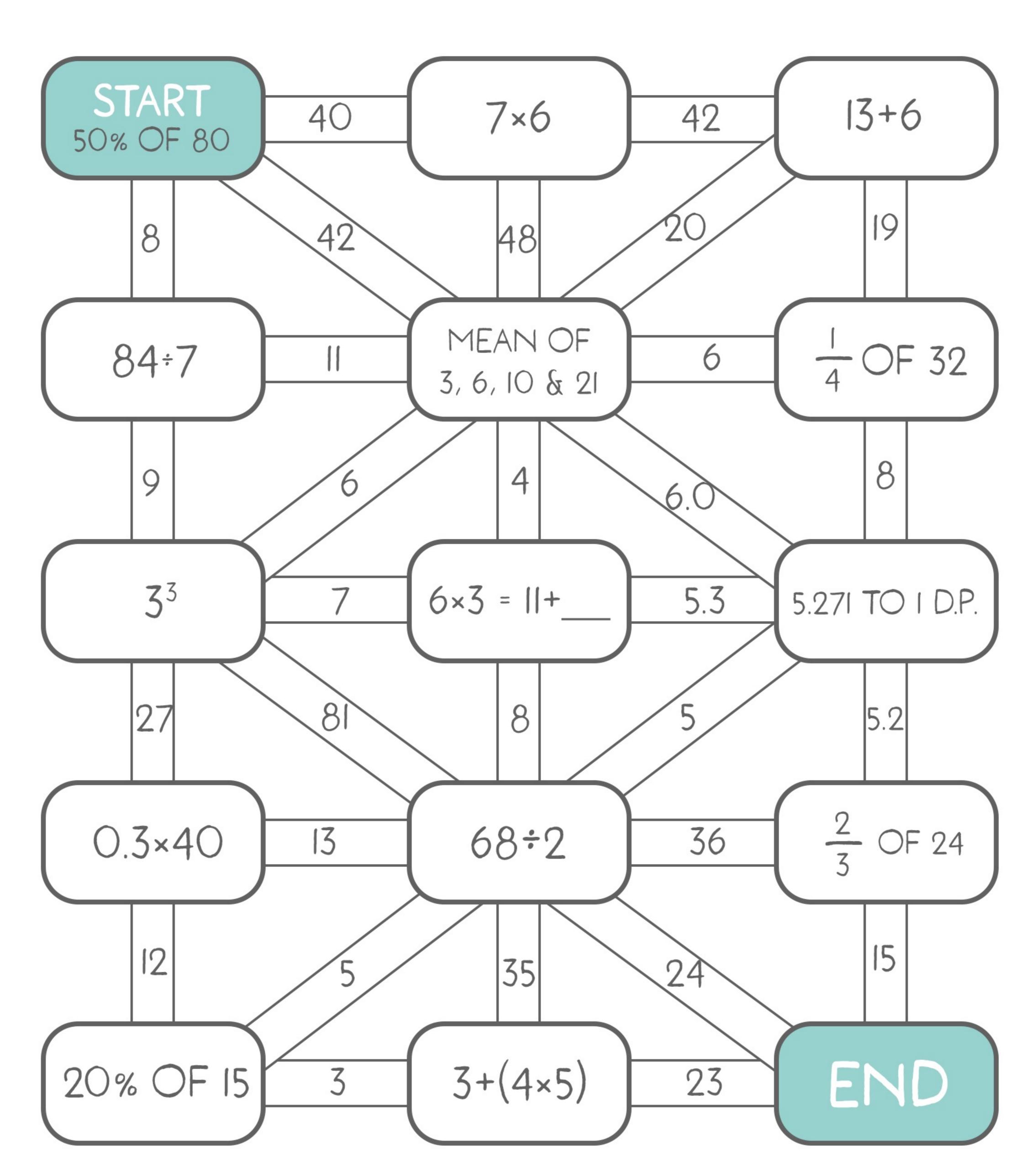






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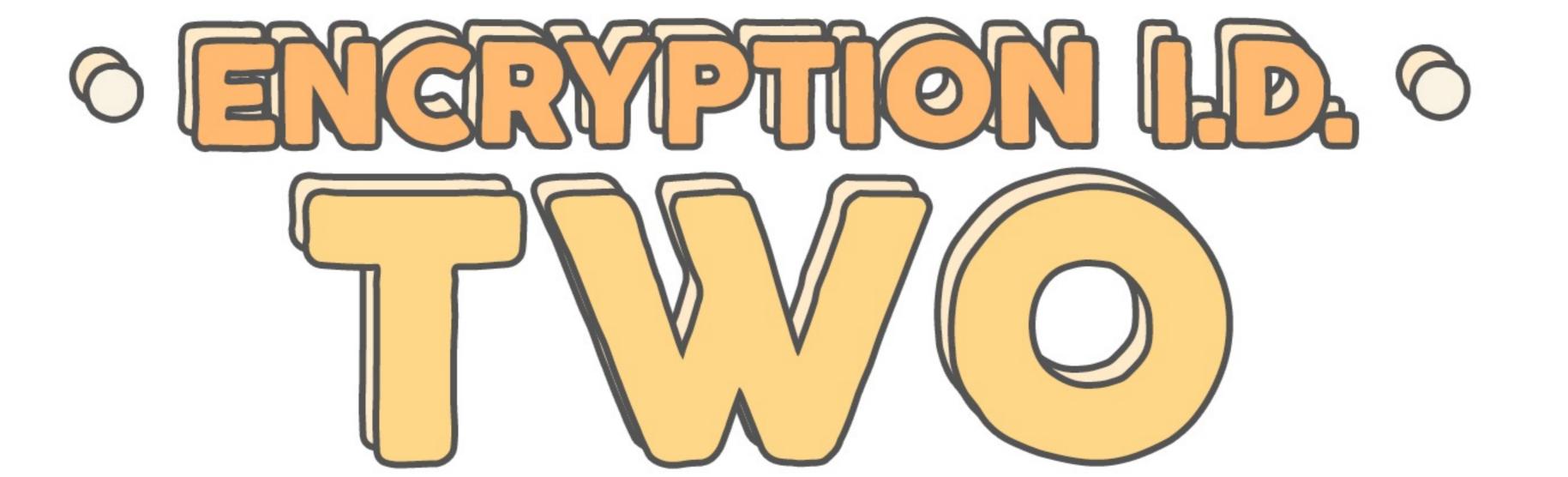
ANSWER THE QUESTIONS CORRECTLY, SHADING AS YOU GO. IF A QUESTION DOESN'T SEEM TO HAVE THE RIGHT ANSWER, SOMETHING'S GONE WRONG. GO BACK A STEP AND CHECK YOUR ANSWER.



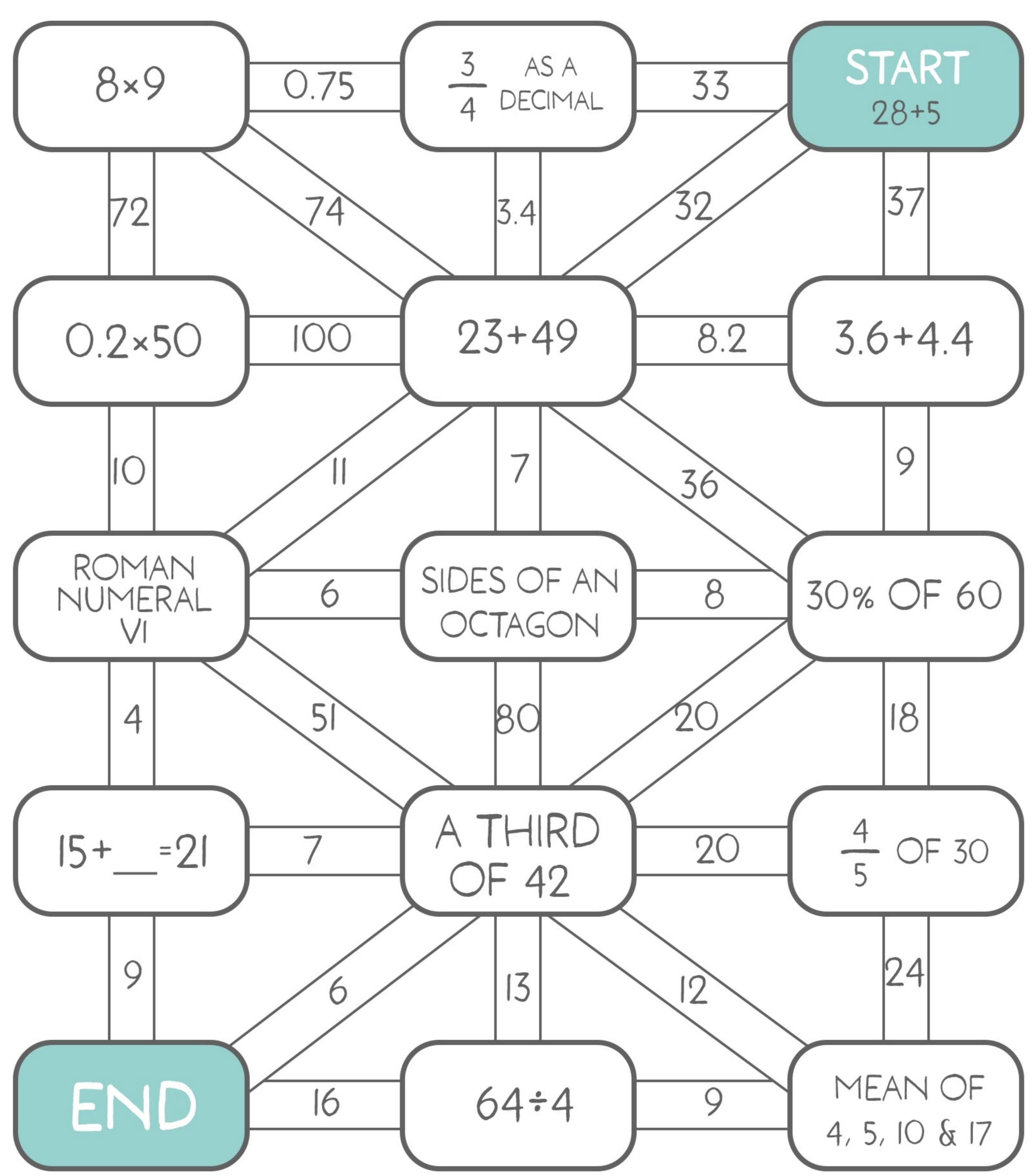
NSPCC



Number Day 2024



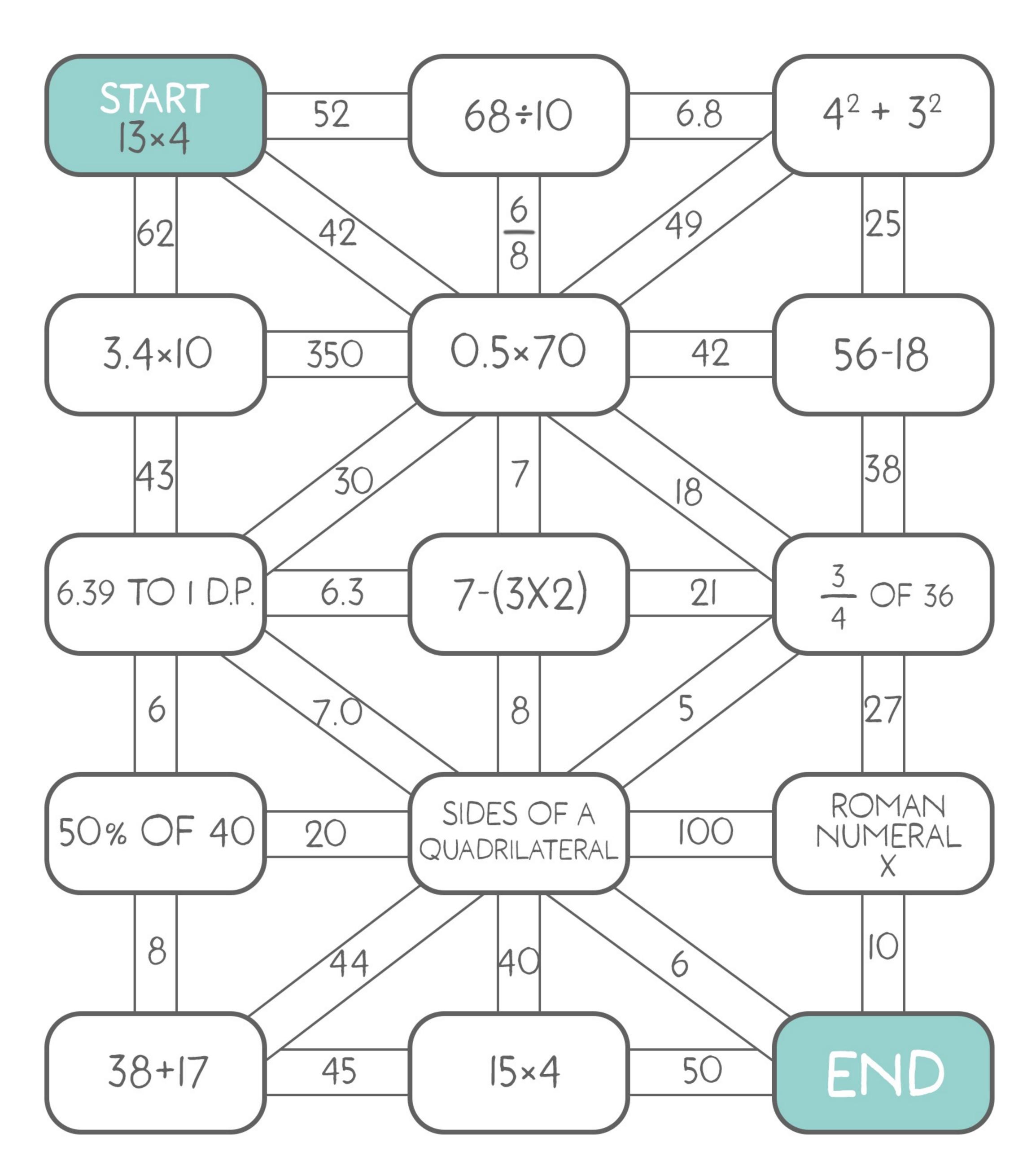
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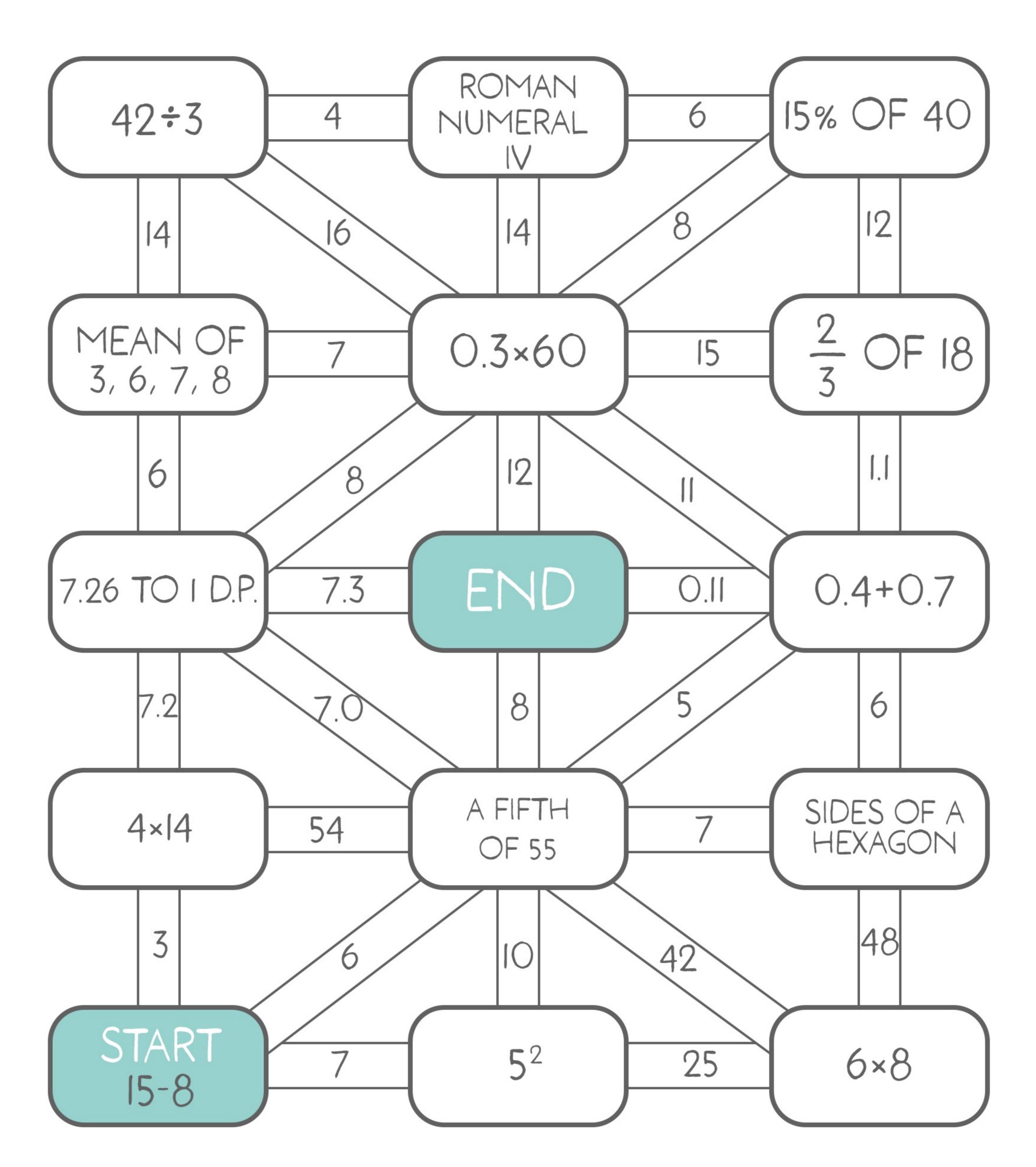
NSPCC



Number Day 2024

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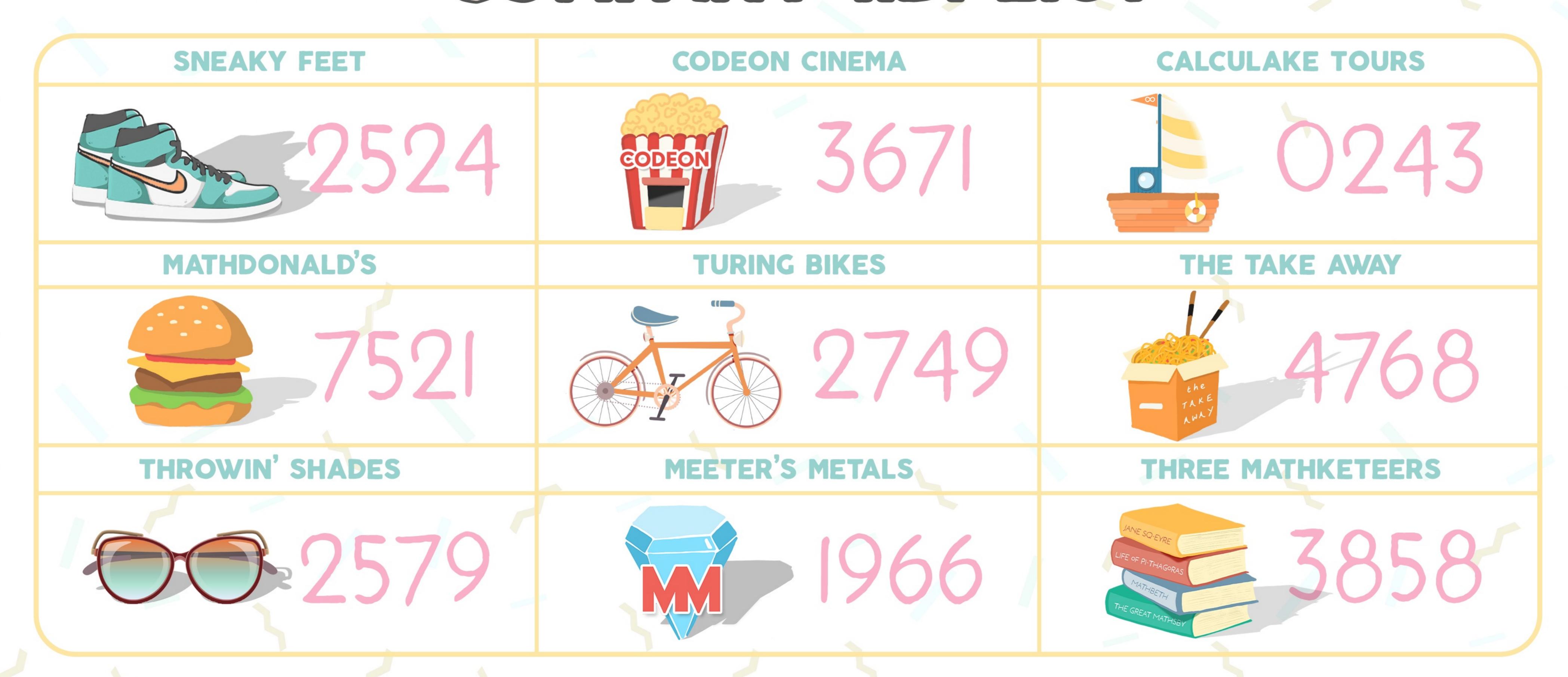
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NSPCC



Number Day 2024









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