



The Poisonous Pizza Plot

Grade 5 math · Skip counting, Place value, Rounding, Word problems, Division · Reading level grades 3-4

Detective: _____ Date: _____

Oh no! Pepe's Pizzeria has been hit by a sneaky rogue! Someone is putting poisonous toppings onto the delicious pies, ruining dinner for everyone. You must help the kitchen crew find the culprit before the dinner rush!

1. Solve each math problem. The answer is a number, and the letter beside it is what that number stands for.
2. In the clue boxes, write that letter in every box showing the same number, then read the secret clue.
3. Use each clue to cross suspects off the list. The one suspect left at the end is the culprit!

My answer: the pizza bandit is _____

Possible suspects

Cross off a row as each clue rules it out. The one left at the end is the culprit.

NAME	SIGNATURE SAUCE	SECRET HERB	CARRYING STYLE	CHEF HAT COLOR	KITCHEN COUNTER
Chef Bobby	Spicy Jalapeno	Smelly Chives	Left-Handed Carry	Green Chef Hat	Spilled Flour
Luigi Pepperoni	Sour Pickle Juice	Stinky Basil	Right-Handed Carry	White Chef Hat	Ice Water Spray
Chef Masaharu	Bitter Garlic	Smelly Chives	Left-Handed Carry	Green Chef Hat	Ice Water Spray
Chef Tom	Sour Pickle Juice	Powdered Pepper	Right-Handed Carry	White Chef Hat	Spilled Flour
Chef Rachael	Spicy Jalapeno	Smelly Chives	Right-Handed Carry	Green Chef Hat	Ice Water Spray
Chef Roy	Sour Pickle Juice	Wild Oregano	Right-Handed Carry	Green Chef Hat	Soap and Water
Chef Alfredo	Sour Pickle Juice	Wild Oregano	Left-Handed Carry	Green Chef Hat	Spilled Flour
Chef Wolfgang	Spicy Jalapeno	Stinky Basil	Right-Handed Carry	White Chef Hat	Spilled Flour
Mario Rossi	Bitter Garlic	Smelly Chives	Right-Handed Carry	Green Chef Hat	Ice Water Spray
Chef Jamie	Fiery Habanero	Stinky Basil	Right-Handed Carry	Green Chef Hat	Spilled Flour
Chef Guy	Bitter Garlic	Stinky Basil	Right-Handed Carry	Red Chef Hat	Soap and Water
Chef Martha	Spicy Jalapeno	Stinky Basil	Right-Handed Carry	Red Chef Hat	Ice Water Spray
Chef Emeril	Fiery Habanero	Mustard Dust	Right-Handed Carry	White Chef Hat	Spilled Flour
Chef Jacques	Spicy Jalapeno	Mustard Dust	Right-Handed Carry	White Chef Hat	Spilled Flour
Chef Alice	Bitter Garlic	Wild Oregano	Left-Handed Carry	Green Chef Hat	Ice Water Spray
Chef Julia	Spicy Jalapeno	Stinky Basil	Left-Handed Carry	Red Chef Hat	Soap and Water
Chef Ina	Spicy Jalapeno	Wild Oregano	Left-Handed Carry	Green Chef Hat	Spilled Flour
Chef Carla	Bitter Garlic	Wild Oregano	Right-Handed Carry	White Chef Hat	Spilled Flour
Chef Giada	Fiery Habanero	Mustard Dust	Left-Handed Carry	White Chef Hat	Spilled Flour
Chef Gordon	Sour Pickle Juice	Mustard Dust	Right-Handed Carry	Red Chef Hat	Soap and Water
Chef Marcus	Fiery Habanero	Smelly Chives	Left-Handed Carry	Green Chef Hat	Soap and Water

CLUE 1

Pepe counted the greasy pizza boxes stacked in the kitchen by twos and threes. He noticed a strange note stuck to one of the boxes.

Solve each problem, then write its letter in every clue box that shows the same number.

[illegible]

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, __, 27, 30 → **T**

Skip-count by 3s. Fill the blank: 3, 6, __, 12, 15 → **H**

Skip-count by 2s. Fill the blank: 2, 4, 6, __, 10, 12 →

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, __, 40, 45 →

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, __, 100, 110 → **N**

Skip-count by 3s. Fill the blank: 3, 6, 9, __, 15, 18 → **A**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, __, 30, 32 → **B**

Skip-count by 2s. Fill the blank: 2, 4, __, 8, 10 → **S**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, __, 150, 160 → **W**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, __, 130, 140 → **E**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, __, 22, 24 → **R**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, __, 18, 20 →

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, __, 55, 60

→

P

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, __, 90, 100

→

D

Scratch space:

CLUE 2

Solve each problem, then write its letter in every clue box that shows the same number.

What is the value of the 1 in 866,153? → **T**

What is the value of the 8 in 169,845? → **Y**

What is the value of the 5 in 65,212? →

What is the value of the 5 in 868,259? →

What is the value of the 2 in 16,266? → **R**

What is the value of the 9 in 569,275? → **A**

What is the value of the 4 in 684,106? →

What is the value of the 9 in 86,963? → **C**

What is the value of the 8 in 448,077? → **H**

What is the value of the 2 in 962,407? → **D**

What is the value of the 7 in 57,806? → **V**

What is the value of the 2 in 94,625? → **G**

What is the value of the 6 in 76,555? → **N**

What is the value of the 4 in 53,463? →

What is the value of the 6 in 832,690? → **E**

What is the value of the 3 in 97,375? →

Scratch space:

CLUE 3 Rounding

The oven temperature dial is broken and only shows numbers rounded to the nearest ten. Let us look closely at the blurry screen.

Solve each problem, then write its letter in every clue box that shows the same number.

A 2x10 grid of boxes. The top row contains the following values from left to right: 'T' (orange), empty, empty, empty, empty, empty, 'T' (orange), empty, empty, empty, empty, empty, empty, empty, empty, empty, empty. The bottom row contains the following values from left to right: empty, empty, empty, empty, empty, empty, 'T' (orange), 'T' (orange), empty, empty, empty, empty, empty, empty, empty, empty, empty. The numbers below the boxes are: Row 1: 370, 70, 3700, 500, 20, 20, 900, 370, 70, 1100, 3700, 430, 1700, 2300, 110, 170, 170, 3700, 90. Row 2: 200, 170, 20, 9000, 1100, 230, 370, 370, 70, 3700, 3000, 110, 170, 170, 230, 110, 2000.

Round 372 to the nearest ten $\rightarrow$ **T**

Round 519 to the nearest hundred $\rightarrow$ **C**

Round 1,131 to the nearest hundred → **R**

Round 174 to the nearest ten $\rightarrow$ **L**

Round 1,735 to the nearest hundred → **S**

Round 2,279 to the nearest hundred → **P**

Round 114 to the nearest ten $\rightarrow$

Round 3,270 to the nearest thousand → **V**

Round 156 to the nearest hundred $\rightarrow$ **F**

Round 94 to the nearest ten → **D**

Round 68 to the nearest ten $\rightarrow$ **H**

Round 226 to the nearest ten $\rightarrow$ **A**

Round 1,549 to the nearest thousand → **N**

Round 433 to the nearest ten $\rightarrow$ **W**

Round 3,663 to the nearest hundred → **E**

Round 9,423 to the nearest thousand $\rightarrow$ **U**

Round 23 to the nearest ten $\rightarrow$

Round 928 to the nearest hundred → **K**

Scratch space:

CLUE 4

Word problems

The delivery driver has to pack several orders of breadsticks. Solve his delivery puzzle to find the next clue on the receipt.

Solve each problem, then write its letter in the boxes to fill in the missing word.

A strand of W A hair turned up at the scene.

58 106 82 28 85 105 106 85 73 106 28

The head cook found 13 garlic cloves yesterday and 45 more today. How many garlic cloves in all?

Answer: → W

The head cook found 20 garlic cloves yesterday and 53 more today. How many garlic cloves in all?

Answer: → F

The head cook found 62 dough balls yesterday and 23 more today. How many dough balls in all?

Answer: → E

The head cook found 39 dough balls yesterday and 66 more today. How many dough balls in all?

Answer: → C

There were 103 dough balls. 21 were used up. How many dough balls are left?

Answer: → I

There were 119 garlic cloves. 13 were used up. How many garlic cloves are left?

Answer: → H

The head cook lined up 4 rows of 7 dough balls. How many dough balls in all?

Answer: → T

Scratch space:

CLUE 5**Division facts (1-12) - the last clue**

The kitchen crew had to share a giant pile of pepperoni slices equally. The leftover pieces match a secret code on the pantry door.

First solve each problem. Then find each answer in the numbered list below and cross that sentence out. One sentence will be left - that is exactly what the villain did!

Step 1 - solve these:

$6 \div 3 = \boxed{}$

$36 \div 4 = \boxed{}$

$44 \div 4 = \boxed{}$

$24 \div 3 = \boxed{}$

$5 \div 1 = \boxed{}$

$6 \div 2 = \boxed{}$

$14 \div 2 = \boxed{}$

$9 \div 9 = \boxed{}$

$144 \div 12 = \boxed{}$

$110 \div 11 = \boxed{}$

$4 \div 1 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain squirts sour pickle juice, then shakes mustard dust into the crust.
2. The villain spreads bitter garlic sauce, then scatters wild oregano over the dough.
3. The villain pours spicy jalapeno sauce, then tosses smelly chives onto the pie.
4. The villain drizzles salty anchovy sauce, then sprinkles stinky basil on top.
5. The villain pours spicy jalapeno sauce, then scatters wild oregano over the dough.
6. The villain pours spicy jalapeno sauce, then shakes mustard dust into the crust.
7. The villain drizzles salty anchovy sauce, then tosses smelly chives onto the pie.
8. The villain squirts sour pickle juice, then blows powdered pepper across the cheese.
9. The villain pours spicy jalapeno sauce, then sprinkles stinky basil on top.
10. The villain spreads bitter garlic sauce, then blows powdered pepper across the cheese.
11. The villain splashes fiery habanero sauce, then shakes mustard dust into the crust.
12. The villain splashes fiery habanero sauce, then sprinkles stinky basil on top.

Answer Key

The Poisonous Pizza Plot

Culprit: Chef Jacques

Spicy Jalapeno · Mustard Dust · Right-Handed Carry · White Chef Hat · Spilled Flour

Trail: Start 21 → Clue 1 20 → Clue 2 12 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Skip counting): "THE BANDIT DOES NOT USE POWDERED PEPPER"

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, __, 27, 30 = 24 (T) · Skip-count by 3s. Fill the blank: 3, 6, __, 12, 15 = 9 (H) · Skip-count by 2s. Fill the blank: 2, 4, 6, __, 10, 12 = 8 (U) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, __, 40, 45 = 35 (O) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, __, 100, 110 = 90 (N) · Skip-count by 3s. Fill the blank: 3, 6, 9, __, 15, 18 = 12 (A) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, __, 30, 32 = 28 (B) · Skip-count by 2s. Fill the blank: 2, 4, __, 8, 10 = 6 (S) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, __, 150, 160 = 140 (W) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, __, 130, 140 = 120 (E) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, __, 22, 24 = 20 (R) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, __, 18, 20 = 16 (I) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, __, 55, 60 = 50 (P) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, __, 90, 100 = 80 (D)

Clue 2 (Place value): "THE VILLAIN USED THE RIGHT HAND TO CARRY IT"

What is the value of the 1 in 866,153? = 100 (T) · What is the value of the 8 in 169,845? = 800 (Y) · What is the value of the 5 in 65,212? = 5000 (O) · What is the value of the 5 in 868,259? = 50 (L) · What is the value of the 2 in 16,266? = 200 (R) · What is the value of the 9 in 569,275? = 9000 (A) · What is the value of the 4 in 684,106? = 4000 (S) · What is the value of the 9 in 86,963? = 900 (C) · What is the value of the 8 in 448,077? = 8000 (H) · What is the value of the 2 in 962,407? = 2000 (D) · What is the value of the 7 in 57,806? = 7000 (V) · What is the value of the 2 in 94,625? = 20 (G) · What is the value of the 6 in 76,555? = 6000 (N) · What is the value of the 4 in 53,463? = 400 (I) · What is the value of the 6 in 832,690? = 600 (E) · What is the value of the 3 in 97,375? = 300 (U)

Clue 3 (Rounding): "THE COOK THREW SPILLED FLOUR AT THE VILLAIN"

Round 372 to the nearest ten = 370 (T) · Round 519 to the nearest hundred = 500 (C) · Round 1,131 to the nearest hundred = 1100 (R) · Round 174 to the nearest ten = 170 (L) · Round 1,735 to the nearest hundred = 1700 (S) · Round 2,279 to the nearest hundred = 2300 (P) · Round 114 to the nearest ten = 110 (I) · Round 3,270 to the nearest thousand = 3000 (V) · Round 156 to the nearest hundred = 200 (F) · Round 94 to the nearest ten = 90 (D) · Round 68 to the nearest ten = 70 (H) · Round 226 to the nearest ten = 230 (A) · Round 1,549 to the nearest thousand = 2000 (N) · Round 433 to the nearest ten = 430 (W) · Round 3,663 to the nearest hundred = 3700 (E) · Round 9,423 to the nearest thousand = 9000 (U) · Round 23 to the nearest ten = 20 (O) · Round 928 to the nearest hundred = 900 (K)

Clue 4 (Word problems): "WHITE CHEF HAT"

The head cook found 13 garlic cloves yesterday and 45 more today. How many garlic cloves in all? = 58 (W) · The head cook found 20 garlic cloves yesterday and 53 more today. How many garlic cloves in all? = 73 (F) · The head cook found 62 dough balls yesterday and 23 more today. How many dough balls in all? = 85 (E) · The head cook found 39 dough balls yesterday and 66 more today. How many dough balls in all? = 105 (C) · There were 103 dough balls. 21 were used up. How many dough balls are left? = 82 (I) · There were 119 garlic cloves. 13 were used up. How many garlic cloves are left? = 106 (H) · The head cook lined up 4 rows of 7 dough balls. How many dough balls in all? = 28 (T)

Clue 5 (Division facts (1-12)): surviving statement is box 6 → Chef Jacques

$6 \div 3 = 2$ · $36 \div 4 = 9$ · $44 \div 4 = 11$ · $24 \div 3 = 8$ · $5 \div 1 = 5$ · $6 \div 2 = 3$ · $14 \div 2 = 7$ · $9 \div 9 = 1$ · $144 \div 12 = 12$ · $110 \div 11 = 10$ · $4 \div 1 = 4$