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MATH MYSTERY:
CASE OF THE PICKPOCKETING PIRATE

*Date:*_____

A whole ship of pirates recently arrived to Mathhattan. They live upon their ship, the Flightless Folly, which is moored at the dock. A number of complaints have been made about a lot of fighting and bickering from their ship. Many of their neighbors are frustrated with the noise, and afraid of the escalating arguments. So, Patrick the Mayor, requested that the Captain of the crew come in for an interview.

The interview took place at the police headquarters this morning. Hear some of the discussion below:

Patrick asked, **"I have been receiving a growing number of complaints about lots of fights and noise coming from your ship. It needs to stop."**
Captain Perguin replied, **"Ya see, we found this amazin' treasure chest a week ago. We each took 5 percent of the loot to be fair. Since we split the loot, one o' the crew has been a greedy pirate by pickpocketin' the other pirates aboard me ship. Everyone be starting to suspect one another, so the fights and squabbles keep happening amongst me crew."**
Patrick continued to say, **"I understand that your crew are upset, but the fights and squabbles need to stop. Everyone by the docks are frustrated and annoyed from the continuous quarrelling they can hear from your ship."**
Captain Perguin grunted, **"Aye, it needs to stop. But it surely won't until the pickpocketing pirate has been made to return the loot or walk the plank. We don't know who it may be, and it's a complete mystery t' me how he managed to pilfer the plunder from the rest o' us. If the culprit isn't found these squabbles will be the least of yer problems. The pirates will turn on the town in their thirst for more gold!"**
Patrick suggested, **"We have some amazing math detectives here in Mathhattan. I'll request that one of our finest come down to your ship to investigate this case."**
Captain Perguin replied, **"Aye, that could work. I'm keen t' see how this detective be solvin' this pickpocketin' mystery."**

After the interview, the Mayor ordered that a math detective go down to the Flightless Folly ship to solve this pickpocketing pirate mystery.

MATH DETECTIVE WANTED TO SOLVE THE CASE OF THE PICKPOCKETING PIRATE

There's a list of all the pirates aboard the Flightless Folly ship, including Captain Perguin. Patrick, the Mayor, needs a fantastic math detective to solve which member of the crew is the pickpocketing pirate. Solve this case to end the noisy squabbles at the docks and keep the pirates from turning on the town. Don't take anything too valuable to the ship or you might get pickpocketed too!

SUSPECT LIST INSTRUCTIONS:

Solve the clues and then cross the suspects off the list until one remains! The last suspect remaining is the pickpocketing pirate who needs to return the loot or walk the plank!

Name: _____

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POSSIBLE SUSPECTS

Pirate Name	Wears an Eyepatch? Yes/No	Wears a Bandana or a Hat?	Pet	Has a beard? Yes/No	Has a/an . . .
Captain Perguin	Yes	Hat	Parrot	No	Hook
Marvell Silver-Tooth	Yes	Hat	Mouse	Yes	Peg Leg
David Jones	Yes	Bandana	Crab	No	Earring
William Cheek	Yes	Bandana	Mouse	Yes	Tattoo
Ralph Landlubber	No	Bandana	Mouse	Yes	Earring
Sefton Runner	Yes	Hat	Crab	No	Tattoo
Bradburn Scar	No	Bandana	Parrot	Yes	Hook
Orson Smithies	No	Hat	Parrot	No	Tattoo
Marley Cook	Yes	Hat	Mouse	Yes	Tattoo
Jack Talon	Yes	Hat	Mouse	Yes	Hook
Flint Sparrow	No	Bandana	Parrot	No	Earring
Warton Law	Yes	Bandana	Crab	Yes	Earring
Morland Two-Toes	No	Bandana	Mouse	Yes	Tattoo
Wade Turner	Yes	Hat	Parrot	Yes	Peg Leg
Oswald Sly	Yes	Bandana	Mouse	No	Tattoo
Derby Blackbeard	No	Hat	Mouse	No	Hook
Easton Smythe	No	Hat	Mouse	Yes	Peg Leg
Linn Buckley	Yes	Bandana	Crab	Yes	Peg Leg
Wilfred Barclay	Yes	Hat	Mouse	No	Tattoo
Shaw Hogan	No	Hat	Mouse	Yes	Earring

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Name: _____

PERCENTS OF MONEY AMOUNTS – CLUE 1

Crack the code by finding the value of the questions below. Use your answers to match and place the letters in the boxes to reveal a clue. Put the letter in every box that it matches your answer in (there may be more than one!)

							S
$80	$20	$40	$30	$8	$14	$9	

$8	$14	$40	$40	$20	$5	$75	$14	$80	$20	$34	$38	$80	$60

$34	$38	$14	$8	$20	$36	$210							

10% of $90 = $9

S

25% of $56 = _____

E

80% of $10 = _____

T

90% of $40 = _____

N

100% of $33 = _____

W

40% of $85 = _____

C

100% of $5 = _____

B

40% of $95 = _____

K

50% of $150 = _____

L

40% of $200 = _____

P

30% of $700 = _____

G

80% of $700 = _____

H

20% of $100 = _____

I

10% of $400 = _____

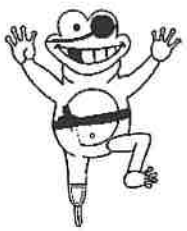
R

50% of $60 = _____

A

10% of $600 = _____

O



Name: _____

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WRITING FRACTIONS & DECIMALS AS A PERCENTAGE - CLUE 2

Crack the code by writing the fractions and decimals as a percentage. Use your answers to match and place the letters in the boxes to reveal a clue. Put the letter in every box that it matches your answer in (there may be more than one!)

1%	50%	72%	80%	50%	40%	9%

				D
30%	6%	17%	20%	35%

100%	20%	50%	40%	100%	90%

30%	17%	75%

50%	20%

80%	31%	10%	50%	75%

121%	6%	72%	25%	10%	80%	9%

100%	30%	80%	10%	75%

86%	10%	50%	20%	70%

					D
75%	6%	86%	86%	10%	35%

Write each of the following as a percentage:

$0.35 =$ **35%** **D**	$\frac{4}{5} =$ _____ **T**	$0.5 =$ _____ **I**	$0.7 =$ _____ **G**	$0.31 =$ _____ **H**
$0.3 =$ _____ **F**	$\frac{2}{5} =$ _____ **M**	$\frac{1}{10} =$ _____ **E**	$0.86 =$ _____ **B**	$\frac{9}{10} =$ _____ **L**
$0.72 =$ _____ **C**	$\frac{1}{5} =$ _____ **N**	$\frac{1}{100} =$ _____ **V**	$0.06 =$ _____ **O**	$\frac{17}{100} =$ _____ **U**
$0.09 =$ _____ **S**	$\frac{1}{4} =$ _____ **K**	$\frac{3}{3} =$ _____ **A**	$1.21 =$ _____ **P**	$\frac{3}{4} =$ _____ **R**

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Name: _____

SALE PRICES – CLUE 3

Crack the code by reading the discounts offered and working out the sale prices of each item listed in the table below. Use your answers to match and place the letters in the boxes to reveal a clue. Put the letter in every box that it matches your answer in (there may be more than one!) The first one has been done for you.

149.60	4.80	110.00	183.00

			L		
149.60	8.25	4.80	5.00	183.00	6.50

L				
5.00	4.80	4.80	8.25	

10.80	79.50	149.60

72.90	4.80	193.70	6.50	14.25

10.80	30.40	8.25	555.80

21.75	183.00	79.50	32.25	14.25

555.80	79.50	30.40	32.25	149.60

4.80	6.50

30.40	8.25

Item	Original Price	Discount	Sale Price $	Letter
Parrot Crackers	$10.00	50% OFF	**$5.00**	**L**
Golden Hook	$550.00	80% OFF		**M**
Earring	$38.00	20% OFF		**I**
Fishing Net	$15.00	5% OFF		**D**
Eye Patch	$8.00	40% OFF		**O**
Empty Barrell	$65.00	90% OFF		**N**
Compass	$43.00	25% OFF		**R**
Polka Dot Bandana	$27.00	60% OFF		**W**
Brass Telescope	$159.00	50% OFF		**A**
Buccaneer's Belt	$33.00	75% OFF		**T**
Parrot Cage	$81.00	10% OFF		**F**
Pirate Sword	$610.00	70% OFF		**E**
Pirate Hat	$176.00	15% OFF		**S**
Silver Anchor	$794.00	30% OFF		**H**
World Map	$29.00	25% OFF		**B**
Cannon Ball	$298.00	35% OFF		**U**

Name: _____

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PERCENT WORD PROBLEMS – CLUE 4

Captain Perguin's parrot keeps trying to say something, and it doesn't sound like 'Polly wants a cracker.' Crack the code by answering the word problems to reveal the clue that the parrot is saying. Use your answers (numbers only) to match and place the letters in the boxes to reveal the clue. Put the letter in every box that it matches your answer in (there may be more than one!)

140	50	20

140	50	5	20	7

10	20	60	15	41

60

50	60	140

There are 20 pirates living on the Flightless Folly Ship. 25% of them are responsible for keeping the decks clean. How many pirates are responsible for keeping the deck clean?

_____ I

Captain Perguin bought 150 crackers for his pet parrot. He ate 10% of them himself. How many crackers did Captain Perguin eat?

_____ R

Bradburn Scar caught 35 fish with his net. 20% of the fish had to be thrown back into the sea because they were too small. How many fish did Bradburn throw back to sea?

_____ F

The Flightless Folly ship has 20 pirates aboard. 12 of those pirates wear an eye patch. What percentage of pirates wear an eye patch on the Flightless Folly? _____ A

Among the 20 pirates of the Flightless Folly crew, 4 of them own a pet crab each. What percentage of pirates on board the ship own a pet crab? _____ E

Shaw Hogan was ordered to peel 200 potatoes. So far he has peeled 30% of the potatoes. How many more potatoes does Shaw still have to peel? _____ T

Jack Talon rolled 82 barrels onto the ship's deck. 50% of those barrels were empty. How many empty barrels did Jack roll onto the ship's deck? _____ S

There were 1,000 gold coins in the treasure chest. Each pirate received 5% of the loot. How many gold coins did each pirate get?

_____ H

Captain Perguin had 90 bottles of boot polish in his cargo. Unfortunately, Flint Sparrow accidentally spilt 9 of them all over the deck. What percentage of boot polish bottles did Flint spill?

_____ W

Name: _____

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SALE PRICES: FIND THE ORIGINAL PRICE – CLUE 5

Below are different statements made by some people. However, only one of them has the correct clue. Complete the questions, and then look for that number in the statement boxes, you will need to cross out that box (meaning that the statement in that box has been eliminated). The one statement box left standing after completing all of the questions, is the one with the correct clue!

The lighthouse guard claims that he saw a pirate, wearing an earring that sparkled, sneak around the ship at night. **$2**	A fisherman at the docks said that he saw a pirate, with a tattoo, take something from another pirate's pocket. **$42**	A local believes that the pickpocketing pirate is one of the crew who has a peg leg. **$88**	Rumor has it that the pickpocketing pirate isn't one of the crew who wears an eye patch. **$44**
Sally reported that a pirate stole a pie from her window sill. She described the pirate to have a peg leg and an eye patch. **$40**	A local sailor reckons that a pirate with a large tattoo has been stashing loot somewhere in the woods. **$92**	Alan called the police to say that a pirate wearing a large gold earring keeps stealing bait from the fishermen's basket. **$288**	Captain Perguin thinks that Marvell Silver-Tooth is the pickpocketing pirate. **$8**
Ben witnessed a pirate pickpocketing his mates on deck. From the distance, he said that he could only see that the pickpocketing pirate was wearing an eye patch. **$52**	Flint Sparrow thinks that Shaw Hogan stole his earring. **$4**	Julie couldn't tell if it was a tattoo or just dirt on the pirate that she saw snatch and run off with a lady's purse. **$72**	Tim found a peg leg left behind at the docks after the fishermen were robbed. **$84**

Find the original price of each item below. Find your answer in a statement box above and cross out that statement. The last box remaining contains the correct information!

SALE
75% OFF
The Original Price

Parrot Treat
The Sale price is $1
Original Price = $_____

SALE
50% OFF
The Original Price

Swashbuckler's Belt
The Sale price is $22
Original Price = $_____

SALE
25% OFF
The Original Price

Silver Hook
The Sale price is $54
Original Price = $_____

SALE
75% OFF
The Original Price

Fish Bait
The Sale price is $2
Original Price = $_____

SALE
50% OFF
The Original Price

Treasure Pouch
The Sale price is $1
Original Price = $_____

SALE
25% OFF
The Original Price

Parrot Pirate Hat
The Sale price is $63
Original Price = $_____

SALE
75% OFF
The Original Price

Wooden Chest
The Sale price is $23
Original Price = $_____

SALE
50% OFF
The Original Price

Wooden Plank Fitting
The Sale price is $26
Original Price = $_____

SALE
25% OFF
The Original Price

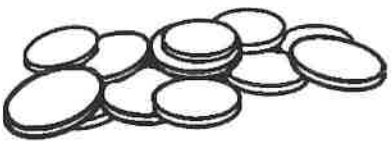
Golden Spyglass
The Sale price is $216
Original Price = $_____

SALE
75% OFF
The Original Price

Generic Pirate Flag
The Sale price is $22
Original Price = $_____

SALE
50% OFF
The Original Price

Vintage oil Lamp
The Sale price is $20
Original Price = $_____



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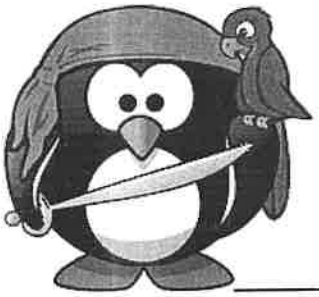
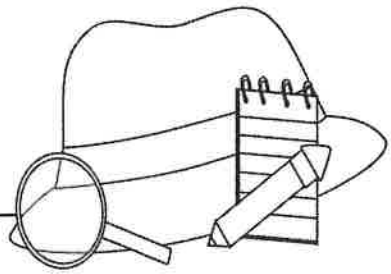
SOLVE THE MYSTERY:
CASE OF THE PICKPOCKETING PIRATE



Detective

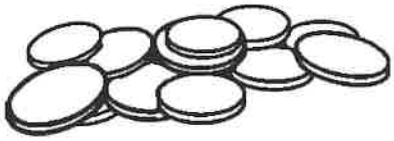


_____

(your name)

Has discovered that the Pickpocketing Pirate is:

_____



Clues Checklist:

Teacher to check and tick

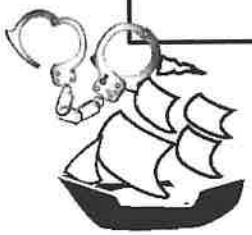
Clue 1 ☐

Clue 2 ☐

Clue 3 ☐

Clue 4 ☐

Clue 5 ☐



☐ Well done, you have discovered who the pickpocketing pirate is! The stolen loot has been recovered and returned to the Flightless Folly crew. Thanks to your hard work, the pirates have stopped fighting and will no longer cause trouble on Mathhattan's shores.

Captain Perguin makes the pickpocketing pirate walk the plank. The criminal falls right into a police boat, where he is greeted with handcuffs and raced off to prison. Captain Perguin and his crew are grateful for your help!

☐ Oops! No that is not the Pickpocketing Pirate. Remove the suspect from the plank, check your work and try again!