# The Mystery of The Place Value Shopping Scam Sham

At the local supermarket, The Value Place, there's been some fiddling of items and some thefts from one of the regular shoppers. Luckily, all the systems in place have identified the problem. Now all the manager has to do is identify the shopping scammer.

It's your job as the Chief Inspector on the case to find out the identity of the Shopping Sham Scammer. The police officers have closed off the supermarket so that none of the shoppers can leave until the thief has been identified.

You have the Scenes of Crime Officers (SOCOs) to help you. You must find the culprit as soon as possible.

Solve the following clues to whittle down the suspects based on their gender, vehicle, cost of their shopping, weight of their shopping and payment method in order to find the Place Value Shopping Sham Scammer!







## The Suspect Shoppers at The Value Place

| Name               | Gender | Vehicle | Cost of<br>Shopping | Weight of<br>Shopping | Payment<br>Method |
|--------------------|--------|---------|---------------------|-----------------------|-------------------|
| Ava Avocado        | F      | Car     | £78.88              | 35.07kg               | Cash              |
| Amir Almond        | М      | Taxi    | £188.81             | 69.90kg               | Debit Card        |
| Billy Beans        | М      | Van     | £130.03             | 45.08kg               | Vouchers          |
| Brianna Brioche    | F      | Walk    | £198.89             | 66.60kg               | Credit Card       |
| Candice Cantaloupe | F      | Car     | £100.01             | 40.06kg               | Store Card        |
| Celo Cereals       | М      | Van     | £172.10             | 62.10kg               | Debit Card        |
| Disa Digestives    | F      | Taxi    | £154.23             | 57.62kg               | Cash              |
| Dilbert Dall       | М      | Bike    | £70.01              | 37.52kg               | Credit Card       |
| Edie Edam          | F      | Van     | £149.09             | 51.06kg               | Debit Card        |
| Egon Eggs          | М      | Car     | £60.60              | 30.08kg               | Debit Card        |
| Ffion Fish         | F      | Walk    | £123.32             | 43.34kg               | Vouchers          |
| Franc Falafel      | М      | Van     | £180.08             | 65.77kg               | Cash              |
| Gordon Gammon      | М      | Car     | £156.16             | 53.12kg               | Cash              |
| Gina Gingerbread   | F      | Taxi    | £175.75             | 64.44kg               | Debit Card        |
| Hamil Ham          | М      | Bike    | £265.50             | 72.27kg               | Credit Card       |
| Hettie Halloumi    | F      | Bike    | £69.99              | 34.43kg               | Cash              |
| Isaac Icing        | М      | Car     | £168.04             | 59.03kg               | Debit Card        |
| Isla Ice Cream     | F      | Van     | £201.10             | 70.07kg               | Cash              |
| Jamila Jam         | F      | Taxi    | £116.61             | 41.99kg               | Debit Card        |
| Julian Juice       | М      | Bike    | £179.09             | 63.63kg               | Vouchers          |
| Kam Kale           | М      | Car     | £143.02             | 52.87kg               | Cash              |
| Kryssa Kiwi        | F      | Bike    | £101.01             | 49.90kg               | Debit Card        |
| Leonard Lettuce    | М      | Walk    | £155.00             | 56.87kg               | Cash              |
| Lisa Leek          | F      | Van     | £203.03             | 71.71kg               | Store Card        |
| Milly Milk         | F      | Car     | £68.18              | 32.23kg               | Debit Card        |
| Malik Muffin       | М      | Taxi    | £130.30             | 48.08kg               | Credit Card       |
| Nadia Nacho        | F      | Bike    | £145.54             | 54.45kg               | Cash              |
| Noel Noodles       | М      | Walk    | £182.02             | 67.11kg               | Vouchers          |
| Olivia Olive       | F      | Van     | £77.01              | 42.00kg               | Debit Card        |
| Oliver Onion       | М      | Car     | £170.07             | 61.01kg               | Store Card        |
| Peter Peaches      | М      | Ταχί    | £65.56              | 31.33kg               | Cash              |
| Pamela Pizza       | F      | Car     | £81.18              | 44.04kg               | Vouchers          |





The SOCOs have found part of a supermarket reward card belonging to the thief. Most of the name is worn away but you can make out their title which tells you something about the culprit. Using the grid, find which letter corresponds to the numbers below to spell out the answer.

| x    | 0.4 | 4 | 1.2 | 12 | 3.4 | 0.34 | 5.6 | 0.56 | 7.8 | 0.78 |
|------|-----|---|-----|----|-----|------|-----|------|-----|------|
| 10   | В   | 0 | F   | G  | S   | E    | J   | D    | I   | С    |
| 100  | К   | L | G   | Н  | А   | Y    | N   | J    | М   | I    |
| 1000 | L   | R | Н   | U  | Р   | А    | Т   | N    | W   | М    |

| 5600 | 1200 | 3.4 |
|------|------|-----|
|      |      |     |

| 7.8 | 12000 | 400 | 3400 | 4000 | 78 | 5600 |
|-----|-------|-----|------|------|----|------|
|     |       |     |      |      |    |      |

| 78 | 34 | 12 | 3.4 | 780 | 340 | 400 | 3.4 |
|----|----|----|-----|-----|-----|-----|-----|
|    |    |    |     |     |     |     |     |





The SOCOs have analysed some of the payment data and receipts from The Value Place supermarket and have found something out about the culprit.

Solve the clue to find out what they have found.

| Α | В | C | D | E | F |
|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 |

| М | N | 0 | Р | ď | R |
|---|---|---|---|---|---|
| 4 | 5 | 6 | 1 | 2 | 3 |

| G | H | I | J | К | L |
|---|---|---|---|---|---|
| 6 | 1 | 2 | 3 | 4 | 5 |

| S | Т | U | ٧ | W | Y |
|---|---|---|---|---|---|
| 3 | 4 | 5 | 6 | 1 | 2 |

Look at the 6-digit numbers at the top of the page and use them to solve the clue at the bottom of the page by finding which digit the description refers to.

| Letter | Description          |
|--------|----------------------|
| e.g. P | One hundred          |
|        | One hundred thousand |
|        | Two thousand         |
|        | Four hundred         |
|        | Twenty Thousand      |
|        | Two                  |
|        | Three thousand       |
|        | One hundred thousand |
|        | Three                |
|        | Four hundred         |





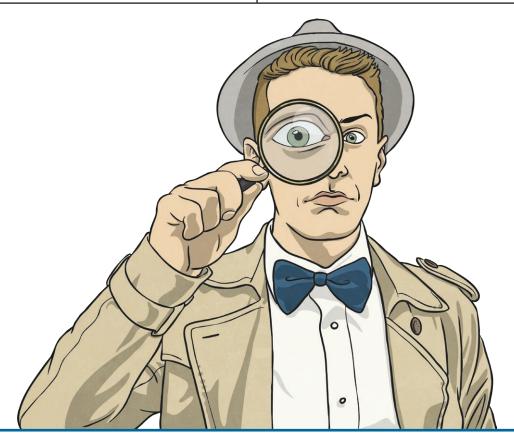


You have done some investigating into the payment method and have ruled out some payment amounts.

Work out the following calculations and eliminate any suspects who have spent that amount.

| Change these amounts from pence to £ |  |  |  |  |
|--------------------------------------|--|--|--|--|
| 15 757p                              |  |  |  |  |
| 20 303p                              |  |  |  |  |
| 16 116p                              |  |  |  |  |
| 10 110p                              |  |  |  |  |

| One British pound = roughly 10 Hong Kong Dollars.<br>Change these amounts from HK\$ to £ |  |  |  |  |
|--|--|--|--|--|
| HK\$1988.90  |  |  |  |  |
| HK\$868.10   |  |  |  |  |
| HK\$1000.10  |  |  |  |  |
| HK\$771.00   |  |  |  |  |





You have been analysing the weight records from the supermarket tills and you can eliminate some showing weights that you have found tally exactly with the amount spent.

Look at the weights below. Any suspects with these shopping weights are innocent. The trouble is, the suspects' shopping has been recorded in kg but the weights are listed here in grams. You will have to change some units.

| Weight in grams | Weight in kg |
|-----------------|--------------|
| 42 000g         |              |
| 23 320g         |              |
| 41 990g         |              |
| 60 060g         |              |
| 52 000g         |              |
| 46 460g         |              |
| 64 440g         |              |
| 50 610g         |              |
| 49 900g         |              |





The SOCOs have found that the same payment method was used at the supermarket petrol station, The Gas Place.

This has revealed one last clue about the method of transport used by the culprit.

Colour in the squares in the grid that match the following calculations to reveal the mode of transport.

| Multiplication | Division    |  |  |
|----------------|-------------|--|--|
| 1.02 × 10      | 65.05 ÷ 10  |  |  |
| 2.1 × 10       | 8.08 ÷ 10   |  |  |
| 0.02 × 10      | 99 ÷ 10     |  |  |
| 3.09 × 10      | 123 ÷ 10    |  |  |
| 50.7 × 10      | 0.3 ÷ 10    |  |  |
| 0.013 × 100    | 1003 ÷ 100  |  |  |
| 4.102 × 100    | 567 ÷ 100   |  |  |
| 6.06 × 100     | 33.3 ÷ 100  |  |  |
| 9.09 × 100     | 198.2 ÷ 100 |  |  |
| 0.073 × 100    | 1905 ÷ 100  |  |  |
| 0.101 × 1000   | 1900 ÷ 1000 |  |  |
| 0.006 × 1000   | 3000 ÷ 1000 |  |  |
|                | 5 ÷ 1000    |  |  |

| 6    | 6.55  | 1.3  | 12.0 | 10.3  | 0.03  | 1.23 | 2.0  | 0.005 | 12.0  | 60.6  | 410.2 |
|------|-------|------|------|-------|-------|------|------|-------|-------|-------|-------|
| 21.0 | 0.9   | 5.67 | 41.2 | 6.505 | 0.88  | 1.9  | 3.9  | 909   | 0.333 | 19.82 | 101   |
| 606  | 90.9  | 0.2  | 73   | 9.9   | 1.982 | 10.2 | 3.33 | 7.3   | 19.5  | 10.03 | 507   |
| 56.7 | 0.808 | 0.13 | 10.1 | 30.9  | 0.30  | 3.0  | 5.7  | 19.05 | 190   | 1.2   | 12.3  |





## The Confession

When the culprit was finally caught, they had this to say:

| x   | 12 | 9 | 7 | 3 | 20 | 6 | 8 | 4 | 30 | 5 |
|-----|----|---|---|---|----|---|---|---|----|---|
| 10  | 0  | М | © | R | Q  | V | N | А | L  | ) |
| 5   | V  | F | : | С | #  | R | А | ( | @  | = |
| 4   | В  | E | G | - | N  | Н | D | W | 0  | + |
| 7   | "  | ! | Z | I | \  | S |   | G | \$ | : |
| 9   | U  | [ | ! | ® | Т  | ® | Υ | E | <  | F |
| 100 | K  | / | £ | L | &  | J | % | > | Р  | ι |
| 3   | E  | ® | I | ~ | V  | , | Н | - | М  | С |
| 8   | ]  | Y |   | Н | *  | В | Х | D | ?  | А |
| 12  | ,  | U | n | E | ?  | Y | u | В | ;  | V |
| 6   | Y  | ® | S | , | 0  | E | В | Н | Т  | R |

| 21 | 180 | 24 | 21 | 80 | 1200 |
|----|-----|----|----|----|------|
|    |     |    |    |    |      |

| 21 | 16 | 40 | 42 |
|----|----|----|----|
|    |    |    |    |





## **The Confession**

| 120 | 45 | 45 | 90 | 72 |
|-----|----|----|----|----|
|     |    |    |    |    |

| 180 | 30 | 120 | 300 | 300 | 36 | 72 | 63 |
|-----|----|-----|-----|-----|----|----|----|
|     |    |     |     |     |    |    |    |





## Clue 1 **Answers**

Reveals: The Culprit is female.

| 5600 | 1200 | 3.4 |
|------|------|-----|
| Т    | н    | E   |

| 7.8 | 12000 | 400 | 3400 | 4000 | 78 | 5600 |
|-----|-------|-----|------|------|----|------|
| С   | U     | L   | Р    | R    | I  | Т    |

| 78 | 34 | 12 | 3.4 | 780 | 340 | 400 | 3.4 |
|----|----|----|-----|-----|-----|-----|-----|
| I  | S  | F  | E   | М   | Α   | L   | E   |

#### Clue 2 Answers

**Answer: PAID BY CARD** 

| Letter | Description          |  |  |
|--------|----------------------|--|--|
| Р      | One hundred          |  |  |
| Α      | One hundred thousand |  |  |
| I      | Two thousand         |  |  |
| D      | Four hundred         |  |  |
| В      | Twenty Thousand      |  |  |
| Y      | Two                  |  |  |
| С      | Three thousand       |  |  |
| Α      | One hundred thousand |  |  |
| R      | Three                |  |  |
| D      | Four hundred         |  |  |





#### Clue 3 Answers

#### Reveals three amounts to eliminate:

| pence   | e to £  | HK\$ TO £   |         |  |  |
|---------|---------|-------------|---------|--|--|
| 15 757p | £157.57 | HK\$1988.90 | £198.89 |  |  |
| 20 303p | £203.03 | HK\$868.10  | £86.81  |  |  |
| 16 116p | £161.16 | HK\$1000.10 | £100.01 |  |  |
| 10 110p | £101.10 | HK\$771.00  | £77.10  |  |  |

#### Clue 4 Answers

#### Reveals four amounts to eliminate:

| Weight in grams | Weight in kg     |  |  |
|-----------------|------------------|--|--|
| 42 000g         | 42kg             |  |  |
| 23 320g         | 23.32kg          |  |  |
| 419 90g         | 41.99kg          |  |  |
| 60 060g         | 60.06kg          |  |  |
| 52 000g         | 52kg             |  |  |
| 46 460g         | 46.46kg          |  |  |
| 64 440g         | 64.44kg          |  |  |
| 50 610g         | 50.61kg          |  |  |
| 49 900g         | 49.9 <b>0</b> kg |  |  |





#### Clue 5 Answers

Reveals: van

| 6    | 6.55  | 1.3  | 12.0 | 10.3  | 0.03  | 1.23 | 2.0  | 0.005 | 12.0  | 60.6  | 410.2 |
|------|-------|------|------|-------|-------|------|------|-------|-------|-------|-------|
| 21.0 | 0.9   | 5.67 | 41.2 | 6.505 | 0.88  | 1.9  | 3.9  | 909   | 0.333 | 19.82 | 101   |
| 606  | 90.9  | 0.2  | 73   | 9.9   | 1.982 | 10.2 | 3.33 | 7.3   | 19.5  | 10.03 | 507   |
| 56.7 | 0.808 | 0.13 | 10.1 | 30.9  | 0.30  | 3.0  | 5.7  | 19.05 | 190   | 1.2   | 12.3  |

## The Culprit:

#### Edie Edam

## The Confession:

### I think I was off my trolley!

| 21 | 180 | 24 | 21 | 80 | 1200 |
|----|-----|----|----|----|------|
| I  | т   | н  | I  | N  | к    |

| 21 | 16 | 40 | 42 |  |
|----|----|----|----|--|
| I  | w  | Α  | S  |  |

| 120 | 45 | 45 | 90 | 72 |
|-----|----|----|----|----|
| 0   | F  | F  | М  | Y  |

| 180 | 30 | 120 | 300 | 300 | 36 | 72 | 63 |
|-----|----|-----|-----|-----|----|----|----|
| т   | R  | 0   | L   | L   | E  | Y  | !  |



