Math Mystery MISSING ScH00


## WMSTEMV <br> (0) [

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SCTOOL ROBOTD


Detective Name:

Oh no, the school's much-loved Robbie Robot is missing! Robbie Robot helps out in the office, cooks in the cafeteria, helps in the classrooms and his disappearance is a DISASTER!

Everyone is so incredibly sad! Teachers can't teach, kids can't learn ...How on earth does a robot just disappear?

There are 10 people who saw Robbie Robot last around the time he went missing. These 10 people are considered SUSPECTS!

Here is your detective brief:

1. Complete each math worksheet and remember to check your answers carefully.
2. At the end of each activity, you will be given a clue that will draw you closer and closer to solving this mystery!
3. Each time you crack a clue, return to the 'Top 10 Suspects Sheet' to cross off or tick suspects!
4. Then complete the next Math Worksheet for your

5. You can do this! You have been assigned Chief Detective because of your extraordinary problem-solving skills.

##  <br> 

Directions: Use this sheet to cross off suspects as you crack the code on each worksheet.

| Suspects | Places | Reason |
| :--- | :--- | :--- |
| 1. Mr Frazzlebone <br> Principal | Principal's Office | Drawing up plans for a new <br> school playground |
| 2. Mr Pickles <br> Janitor | School Corridor | Polishing Robbie's metal <br> body and his 96 buttons |
| 3. Mr Potts <br> Librarian | Library | Helping librarian unpack <br> 231 books from boxes |
| 4. Mrs Zany <br> Scientist | Science Lab | Mixing liquids for a science <br> experiment |
| 5. Grade 5 kids | School Field | Playing baseball at 10.55am |
| 6. Mrs Howard <br> Secretary | Front Office | Replacing A4 paper in the <br> photocopier |
| 7. Mrs Petal <br> Cafeteria Manager | Kitchen | Stock-taking in the <br> cafeteria |
| 8. Mr Jessup <br> Gardener | In garden shed | Sorting 210 pots |
| 9. Mr Mac <br> Grade 7 Teacher | Grade 7 classroom | Rearranging desks and <br> chairs in the classroom |
| 10. The Parents | Front of school at <br> drop-off time | Having a morning chat |

DLACE VALUS CLUR
Directions: Check the following sums and then write true or false:

| Place Value | True or False |
| :--- | :--- |
| $200+50+5=255$ |  |
| $600+30+2=602$ |  |
| $500+70+0=570$ |  |
| $700+60+0=760$ |  |
| $900+90+9=999$ |  |
| $1000+900+20=1920$ |  |
| $2000+0+80+0+90+7=3247$ |  |
| $5000+700+50+7=5757$ |  |



Directions: Order these numbers from smallest to largest

| Numbers | Smallest to Largest |
| :---: | :---: |
| $4524,5486,3928$ |  |
| $1928,9382,5844$ |  |
| $2036,6048,1124$ |  |
| $3046,4058,2914$ |  |
| $6754,2398,7696$ |  |
| $5563,4253,8901$ |  |
| $9038,2678,4930$ |  |
| $4400,3006,1202$ |  |
| $6482,6094,4996$ |  |
| $1554,8938,3920$ |  |

## Your next clue:

If there are more odd number sequences, then eliminate all the indoor places. If there are more even number sequences, then eliminate all the outdoor places.

# NUMDED DATRERNS CLUE 解S 

Directions: Complete the following number patterns:

$$
\begin{array}{l|l|l}
1417 & 1427 & 1437
\end{array}
$$

$$
\begin{array}{l|l|l|l|}
\hline 2325 & 2345 & & 2385 \\
\hline
\end{array}
$$

\section*{| 8117 | 8217 | 8317 |
| :--- | :--- | :--- |}

7584
7784
7984

## 3189 <br> $$
\begin{array}{l|l} \hline 3589 & 3789 \end{array}
$$

| 2256 | 4256 | 5256 |
| :--- | :--- | :--- | :--- |

Here's your $3^{\text {rd }}$ clue:
Tick which skip counting pattern occurs the most often:
[ 10s: It's not Mr Frazzlebone

- 20s: It's not Mrs Potts
[100s: It's not the Mrs Zany

Directions: Solve the following word problems:

| Jack has 324 <br> marbles. <br> His brother has <br> double that amount. <br> How many marbles <br> does his brother <br> have? | Jen has 546 gems. <br> Sam has 342 gems. <br> How many gems do <br> they have in total? | In an aviary, there <br> are 110 blue birds <br> and 321 green birds. <br> How many birds in <br> all? |
| :--- | :--- | :--- |

MENTAL MATL CLUR E
Directions: Solve and write your answers in the boxes below:

| Mental Math | Write your answers |
| :--- | :--- |
| 1 dozen |  |
| 6 groups of 10 |  |
| $12 \times 8$ |  |
| $250+250+250=$ |  |
| Half of 192 |  |
| How many days in a leap year? |  |
| 375 add 15 |  |

Great job...You're halfway there!
This two-digit answer appears twice! Is it:
$\square 750$
$\square 96$
$\square 390$
Go to the 'Top 10 Suspect Sheet' to locate this number and eliminate that suspect!

## 

Directions: Draw a line to match the 3D shape to its description

| cube | I have 8 sides |
| :--- | :--- |
| hexagon | A solid shape with no <br> edges |
| octagon | I have 6 faces |
| sphere | I have 2 bases and no <br> straight edges |
| cylinder | I have 5 sides |

## Clue 6:

Count how many 3D shapes are listed on this page. Then eliminate that number suspect!

# MULTIPLCATHON CLUE 

Directions: Solve the following multiplication products:

62
7
$\times \quad 7$

86


77
84

$\begin{array}{r}77 \\ \times \quad 3 \\ \hline\end{array}$
$\qquad$

55
$\begin{array}{r}\times \quad 8 \\ \hline\end{array}$

| $\mathrm{x} \quad 8$ |
| :--- |

Clue 7:
For your next clue, you are looking for:
$\square$ A three-digit number
$\square$ An odd number greater than 200
$\square$ Once you find it, go to the
'Top 10 Suspects Sheet'
$\square$ Find the number and eliminate this suspect!

## MATU STORTES CLUP

Directions: Solve the following and write your answers in the boxes:

There were 455 birds in a tree. 53 flew away. How many birds left?

Sam has 347 marbles. He gives 237 to Tom. How many marbles does Sam have now?

There 178 worms in garden. 130 worms wriggle away. How many worms left?

There are 629 leaves On the ground. The wind blows 419. How many leaves on the ground now?

Circle this answer!
Clue: The number is between 200 and 220!
Find this number on the Suspicious Suspects page and confidently eliminate that suspect!

## TELLING TLGE TiMR CLUE \&

Directions: Draw the hands on the clock to match the digital times:

12:34

9:14



7:07

10.55


4:18


1:39


6:29

Circle the third clock in the first row. Next, find this time on the 'Top 10 Suspicious Suspect Sheet.' Then eliminate this suspect!

# COMDAPING NUMABEDS CLO5 喼 10 

Directions: Use the >, < or = to compare the following numbers:


Once you find the suspect, crack this code by unjumbling the letters to find out why Robbie Robot was taken:
 $\bar{g} \bar{r} \bar{e} \bar{h}^{c} \frac{r}{a} \frac{i}{g} \frac{m^{\prime}}{n}$

$$
\begin{gathered}
\text { TEACHED } \\
\Delta \mathbb{N} \mathbb{N} E D S
\end{gathered}
$$

PLACE VALUE CLUE
Directions: Check the following sums and then write true or false:

| Place Value | True or False |
| :---: | :---: |
| $200+50+5=255$ | true |
| $600+30+2=602$ | false |
| $500+70+0=570$ | true |
| $700+60+0=760$ | true |
| $900+90+9=999$ | true |
| $3000+200+40+7=3247$ | true |
| $6000+0+90+8=6008$ | false |
| $1000+900+20=1920$ | true |
| $2000+0+80+1=2018$ | false |
|  |  | CL७色解2

Directions: Order these numbers from smallest to larges $\dagger$

| Numbers | Smallest to Largest |
| :---: | :---: |
| $4524,5486,3928$ | $3928,4524,5486$ |
| $1928,9382,5844$ | $1928,5844,9382$ |
| $2036,6048,1124$ | $1124,2036,6048$ |
| $3046,4058,2914$ | $2914,3046,4058$ |
| $6754,2398,7696$ | $2398,6754,7696$ |
| $5563,4253,8901$ | $4253,5563,8901$ |
| $9038,2678,4930$ | $2678,4930,9038$ |
| $4400,3006,1202$ | $1202,3006,4400$ |
| $6482,6094,4996$ | $4996,6094,6482$ |
| $1554,8938,3920$ | $1554,3920,8938$ |

## Your next clue:

If there are more odd number sequences, then eliminate all the indoor places. If there are more even number sequences, then eliminate all the outdoor places.

Directions: Complete the following number patterns:

| 1417 | 1427 | 1437 | 1447 | 1457 |
| :--- | :--- | :--- | :--- | :--- |
| 2325 2345 2365 2385 <br> 2405    <br> 8117 8217 8317 8417 |  |  |  |  |

$$
\begin{array}{|l|l|l|l|l|}
\hline 7584 & 7684 & 7784 & 7884 & 7984 \\
\hline
\end{array}
$$

$$
\begin{array}{|l|l|l|l|l|}
\hline 3189 & 3389 & 3589 & 3789 & 3989 \\
\hline
\end{array}
$$

| 2256 | 3256 | 4256 | 5256 | 6256 |
| :--- | :--- | :--- | :--- | :--- |

Here's your $3^{\text {rd }}$ clue:
Tick which skip counting pattern occurs the most often:
[ 10s: It's not Mr Frazzlebone

- 20s: It's not Mrs Potts

100s: It's not the Mrs Zany

Directions: Solve the following word problems:

| Jack has 324 <br> marbles. <br> His brother has <br> double that amount. <br> How many marbles <br> does his brother <br> have? <br> 648 marbles | Jen has 546 gems. <br> Sam has 342 gems. <br> How many gems do <br> they have in total? | In an aviary, there <br> are 110 blue birds <br> and 321 green birds. <br> How many birds in <br> all? |
| :--- | :--- | :--- |
| 888 gems | 431 birds |  |

MENTAL MATL CLUR E
Directions: Solve and write your answers in the boxes below:

| Mental Math | Write your answers |
| :--- | :---: |
| 1 dozen | 12 |
| 6 groups of 10 | 60 |
| $12 \times 8$ | 96 |
| $250+250+250=$ | 950 |
| Half of 192 | 96 |
| How many days in a leap year? | 366 |
| 375 add 15 | 390 |

Great job...You're halfway there!
This two-digit answer appears twice! Is it:
$\square 750$
96
$\square 390$
Go to the 'Top 10 Suspect Sheet' to locate this number and eliminate that suspect!

S(D) SMAADSGMUS GOB

Directions: Draw a line to match the 3D shape to its description


## Clue 6:

Count how many 3D shapes are listed on this page. Then eliminate that number suspect!

# MULTIPLCATION CLUE 

Directions: Solve the following multiplication products:

## 45



180


86


29


232

68



$$
\text { Clue } 7 \text { : }
$$

For your next clue, you are looking for:
$\square$ A three-digit number
An odd number greater than 200
$\square$ Once you find it, go to the
'Top 10 Suspects Sheet'
$\square$ Find the number and eliminate this suspect!

## MATU STORTES CLUP E

Directions: Solve the following and write your answers in the boxes:

There were 455 birds in a tree. 53 flew away. How many birds left?

## 402 birds

Sam has 347 marbles. He gives 237 to Tom. How many marbles does Sam have now? 110 birds

There 178 worms in garden. 130 worms wriggle away. How many worms left?

There are 629 leaves On the ground. The wind blows 419. How many leaves on the ground now?

## 48 worms

Circle this answer!

Find this number on the Suspicious Suspects page and confidently eliminate that suspect!

## TELLING TLGE TiMR CLUE \&

Directions: Draw the hands on the clock to match the digital times:


12:34

$12 \cdot 6$


3:23

10.55


9:14


1:39


6:29

Circle the third clock in the first row. Next, find this time on the 'Top 10 Suspicious Suspect Sheet.' Then eliminate this suspect!
 CLU® 驺 (0)
Directions: Use the >, < or = to compare the following numbers:
345

873
987

746
918

657
493

576
120

120
379

654
573

753
731
$<$
936

Once you find the suspect, crack this code by unjumbling the letters to find out why Robbie Robot was taken:


## CREDTTS



## Font:

## TeachersLoveTeaching

