



MULTIPLICATION AND DIVISION WHODUNNIT PUZZLES

INFORMATION SHEET



What are the **MULTIPLICATION AND DIVISION WHODUNNIT PUZZLES**? They are a collection of 12 puzzles that can be used to teach your child written methods for multiplication and division. They are based around the dastardly deeds of some criminals in 1930s “Old Chicago”. They are colourful and cartoon-based to motivate your child. Each of the puzzles is made up of tasks which your child has to complete to eliminate suspects who may have perpetrated a crime. Your child has to use their

multiplication and division skills to work out details about each suspect such as which getaway car they use and where you can find their favourite safe house. Once all of these clues have been put together your child can eventually narrow down the possible offenders until they finally discover the rascally culprit.

Heeem... Haven't you noticed I am rather busy! I've heard that this code will let you rule out a suspect. Work out the answer to each question and write the letter it matches each time it appears in the grid. That will give you some information that will come in useful. Now, if you don't mind, I need to get on with my work...

7 x 7788 = B
7997 x 7 = D
9 x 5843 = E
4 x 9476 = H
4766 x 9 = I
9526 x 5 = L
7459 x 6 = N
8 x 5322 = O
7888 x 3 = R
9 x 8989 = S
4 x 2898 = T
8 x 2273 = U

11581	37934	12197	23604	42376	34518	12587	28841
85176	18384	47636	10375	46754	42376	11030	
58131	12197	80901	12197	12197	44754		
	18184	43084	42754				
37934	42176	23604	23604	42084	10375		
	17942	21664	80901	47636	12197	21664	
C		Y					

What exactly are written methods? They are the methods for multiplying and dividing that you

probably used at school. We don't tell the children which methods to use because each school has different ways to do them - we just ask the questions! If you ask your school they will have a “calculations policy” which will show you how they do it, and enable you to do it in the same way.

Each of the tasks is different and has definite answers, allowing you to know whether your child has completed the questions correctly. The tasks within each puzzle are provided at five or six levels. This means that whatever level your child is now at they will have appropriate work. Once they have mastered one type of question you can move them on straightaway - even if they are halfway through the puzzle!

The levels of work within the puzzles are:

Multiplication: 2-digits by 1-digit
3-digits by 1-digit
4-digits by 1-digit
Decimals (1 or 2 decimal places) by 1-digit
2-digits by 2-digits
3-digits by 2 digits

Division: 2-digit by 1-digit
3-digits or 4 digits by 1-digit
3-digits or 4 digits by 1-digit with remainders
3-digits or 4 digits by 2-digits
3-digits or 4 digits by 2-digits with remainders

CASE # 3 4 3
CONFIDENTIAL
For the attention of Detective

CRIME: Kidnapping
DATE: 22 May 1932
LOCATION: The Loop

DETAILS:
One of the criminals on the next page is guilty of kidnapping Colonel Wilbraham Washington, Commander of the Chicago Garrison, and demanding a ransom. Your assignment is to work out what the ransom amount is, and speak to the grumpy bartender Moreau, to find the Colonel and return him to his family as soon as possible.
Commissioner Ashworth

SUSPECTS:

- Robert "Felix" Moreau**
Bartender
Address: 17000
Ransom: 10000
- Colonel "The Grumpy" Moreau**
Commander of Chicago Garrison
Ransom: 10000
- Colonel "The Grumpy" Moreau**
Commander of Chicago Garrison
Ransom: 10000
- Colonel "The Grumpy" Moreau**
Commander of Chicago Garrison
Ransom: 10000

The city's west and full of skyscrapers. Work out the answer to each question and match it to one of the answers on the list. This gives you the code to enter on the grid. Write that letter down at the bottom of the page. Once you have got them all, rearrange them to spell out the name of one of the suspects. You can rule out the criminal who has that one as their surname.

8	A	B	C
7	D	E	F
6	G	H	I
5	J	K	L
4	M	N	O
3	P	Q	R
2	S	T	U
1	V	W	X
	Y	Z	

9 x 8360 = 75221 (A8) 75221 (A7)
8627 x 9 = 77633 (C4) 77633 (B4)
9 x 8084 = 72756 (A2) 72756 (B2)
5 x 9999 = 50015 (C8) 49995 (A3)
7449 x 6 = 44694 (B3) 44694 (C4)
3246 x 6 = 19476 (A2) 19486 (A7)
7749 x 6 = 46494 (B1) 46494 (B7)

8 x 8582 = 68636 (C2) 68636 (A2)
3830 x 4 = 15324 (C1) 15444 (C5)
4 x 3554 = 14216 (B7) 14116 (C6)
7 x 4592 = 32134 (A7) 32144 (B4)
8 x 4296 = 34368 (C3) 34368 (C1)
5534 x 6 = 33204 (B5) 33304 (A6)
3757 x 3 = 11271 (B7) 11271 (A2)
2926 x 7 = 18482 (A6) 18482 (B6)

In short, the **MULTIPLICATION AND DIVISION WHODUNNIT PUZZLES** are the ideal solution if you want to ensure that your child actually enjoys multiplying and dividing.