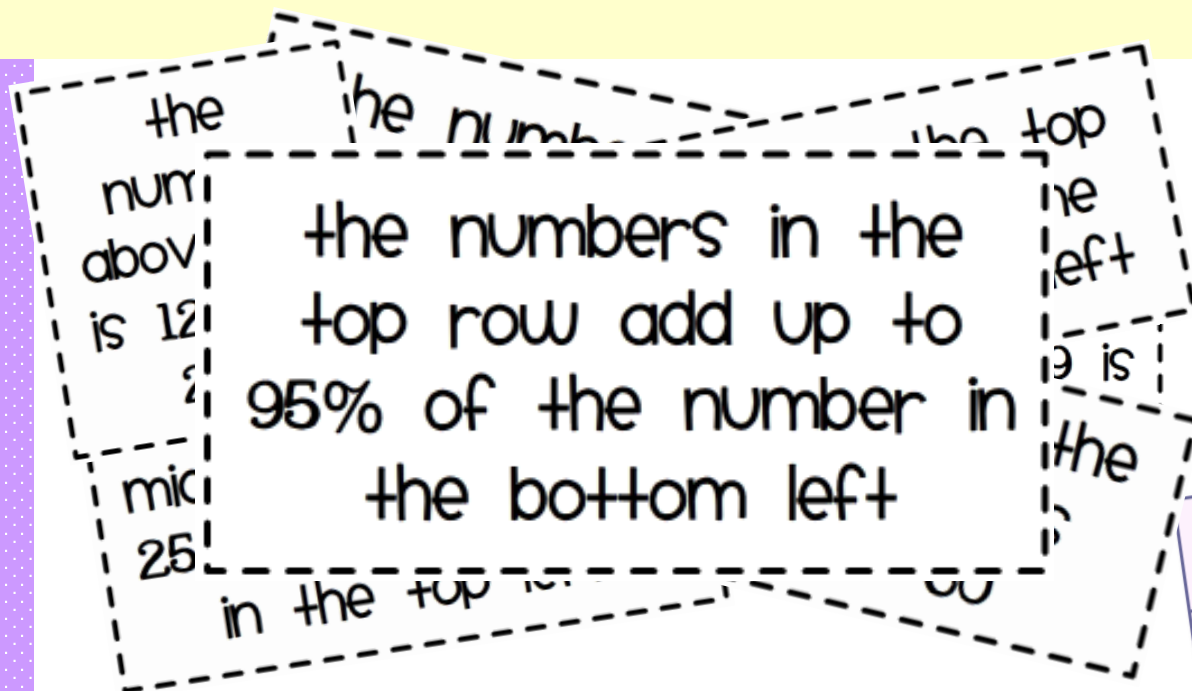
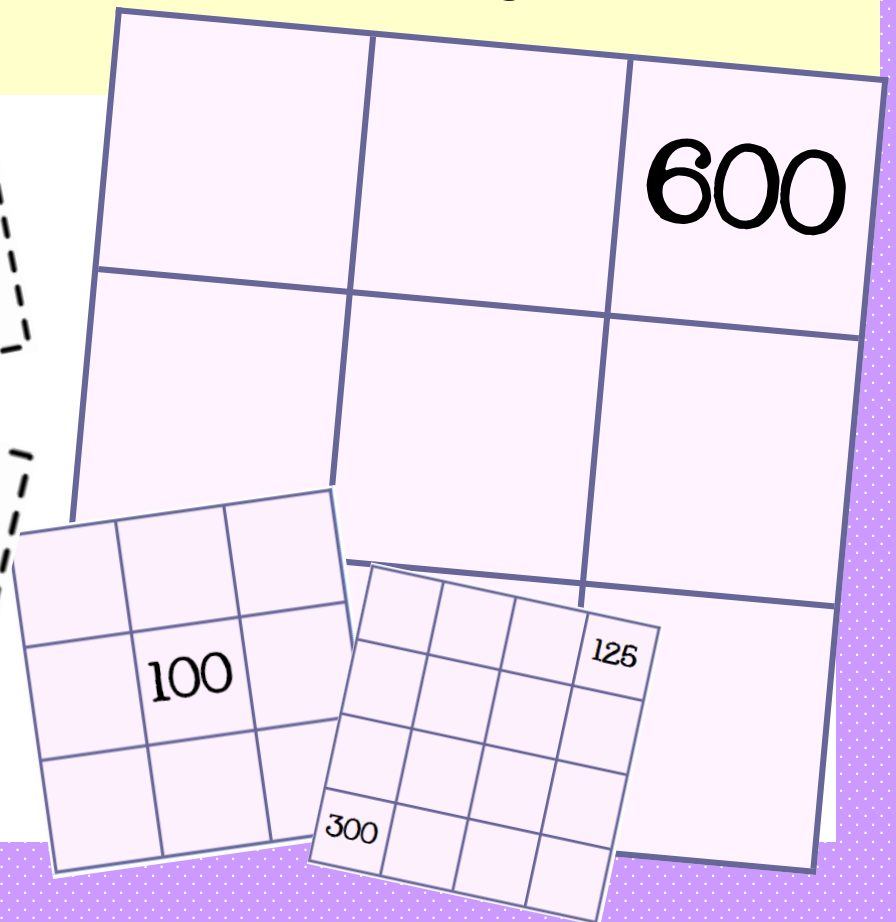


Percentages of An Amount

Mystery Activity



use the clues to solve the puzzle

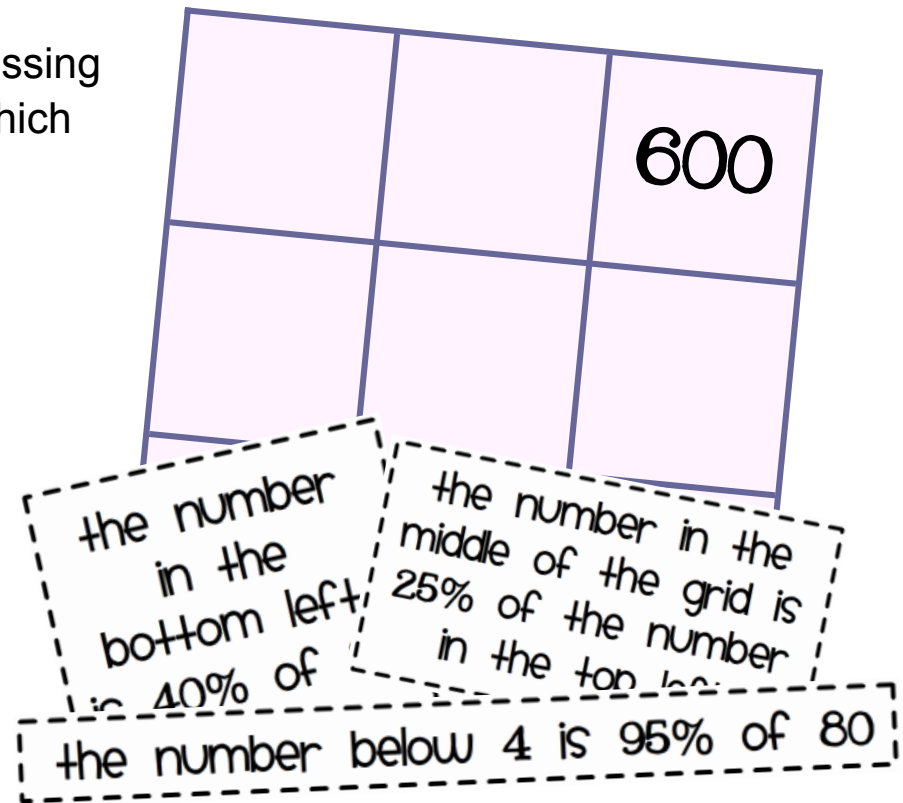


instructions

Students must use the clues to work out what the missing numbers in the grid will be. The trick is to look for which clues you can use first, and leave the rest for later.

There are three different versions of this task, depending on where your class are at with percentages of an amount:

- Level 1:** All percentages are multiples of 10
- Level 2:** Includes 5%, 1% and 2%
- Level 3:** Larger grid, more difficult percentages to calculate, one question asks to work from 10% to 100%



Use the clues to complete
the grid at the bottom

the number below 20 is 10% of 70

the numbers in the bottom
row add up to 20% of 500

the number in the top left is
20% of the number in the middle

the number above
18 is 50% of 70

the number
in the
bottom left
is 40% of 80

the number in the
bottom right is
30% of 60

the number in the top
right is 50% of the
number in the top left

the number next
to 10 is 10% of
the number in
the top left

| | | |
|--|-----|--|
| | | |
| | 100 | |
| | | |

answers to puzzle 1

| | | |
|----|-----|----|
| 20 | 2 | 10 |
| 7 | 100 | 35 |
| 32 | 50 | 18 |

Use the clues to complete the grid at the bottom

the number below 16 is 5% of the number above 16

the number above 150 is 12% of 200

the number in the top left is 11% of 500

the number in the middle of the grid is 25% of the number in the top right

the numbers in the middle row add up to 85% of 200

the number below 4 is 95% of 80

the number next to 76 is 20% of the number in the top left

the number to the left of 150 is 5% of 80

| | | |
|--|--|-----|
| | | 600 |
| | | |
| | | |

answers to puzzle 2

| | | |
|----|-----|-----|
| 55 | 24 | 600 |
| 4 | 150 | 16 |
| 76 | 11 | 30 |

Use the clues to complete the grid at the bottom

the number next to 28 is 23% of 300

the number below 9 is 16% of 150

the number above 5 is 15% of 120

the number below 69 is 1% of 150

the number in the top left is 8% of 400

the number in the bottom right is 4% of the number in the top right

the numbers in the column on the right add up to 88% of 200

the number below 32 is 50% of the number above 5

the number next to 24 is 25% of 24

the number below 2 is 1% of 1500

the numbers in the top row add up to 95% of the number in the bottom left

the number above 69 is 42% of the number in the bottom left

the number to the left of 5 is 150% of the number in the top left

10% of the number below 6 is 40

| | | | |
|-----|--|--|-----|
| | | | 125 |
| | | | |
| | | | |
| 300 | | | |

answers to puzzle 3

| | | | |
|-----|-----|-----|-----|
| 32 | 2 | 126 | 125 |
| 9 | 15 | 69 | 28 |
| 24 | 6 | 1.5 | 18 |
| 300 | 400 | 48 | 5 |

extension

can you make up your own
percentages mystery grid?

