Mathematics

# Gabriel's problem

Mr Millar

# Try this

Each blue box is the product of the 3 numbers in that row or column.

For example, 6 x 8 x 3 = 144.

Complete the other blue boxes.

| | | | |
|---|---|---|---|
| 6 | 8 | 3 | 144 |
| 7 | 1 | 5 | |
| 2 | 9 | 4 | |
| | | | |

# Connect

Again, each blue box is the product of the 3 numbers in that row or column.

Complete the other boxes.

I will need to use division as well as multiplication here...

| | | | |
|---|---|---|---|
| 4 | 3 | 5 | |
| 8 | | | 336 |
| 1 | | 9 | 18 |
| | 42 | | |

# Independent task

Again, each blue box is the product of the 3 numbers in that row or column.

Complete the other boxes.

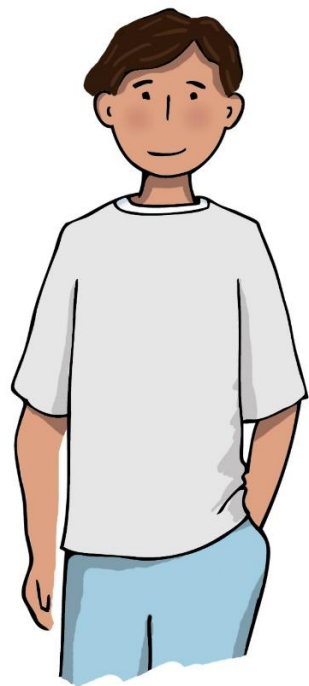| 9 | 3 | | 162 |
|---|---|---|---|
| | | 2 | 14 |
| | | | 160 |
| 45 | | 96 | |

# Explore

Again, each blue box is the product of the 3 numbers in that row or column.

Complete the other boxes.

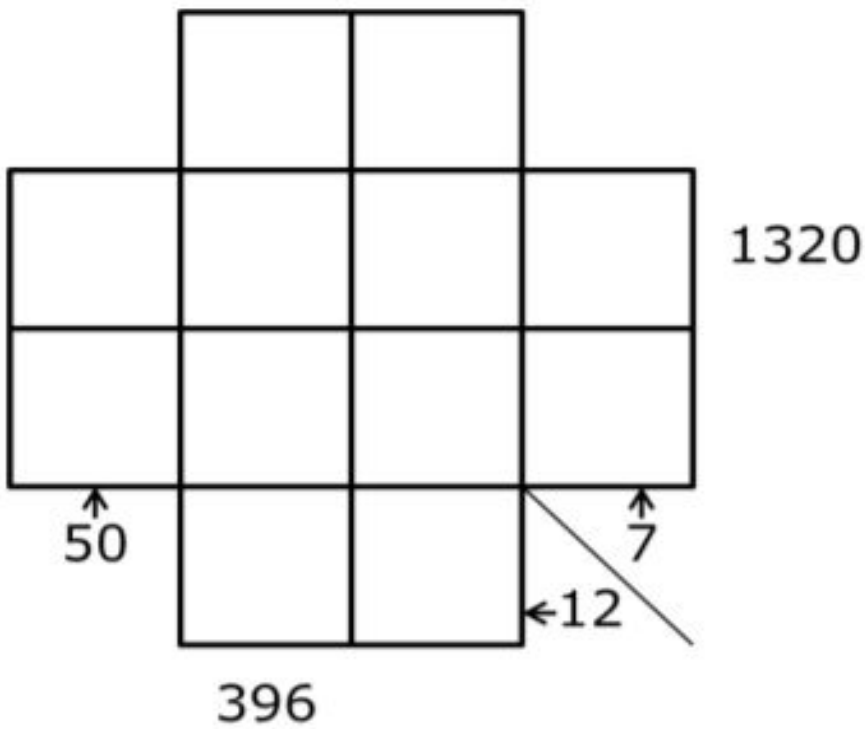I know where the 5 goes by thinking about which numbers 5 is a **factor** of

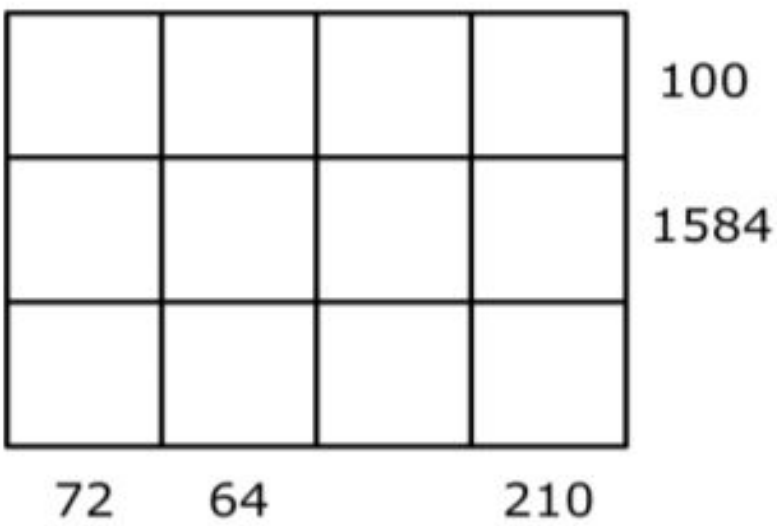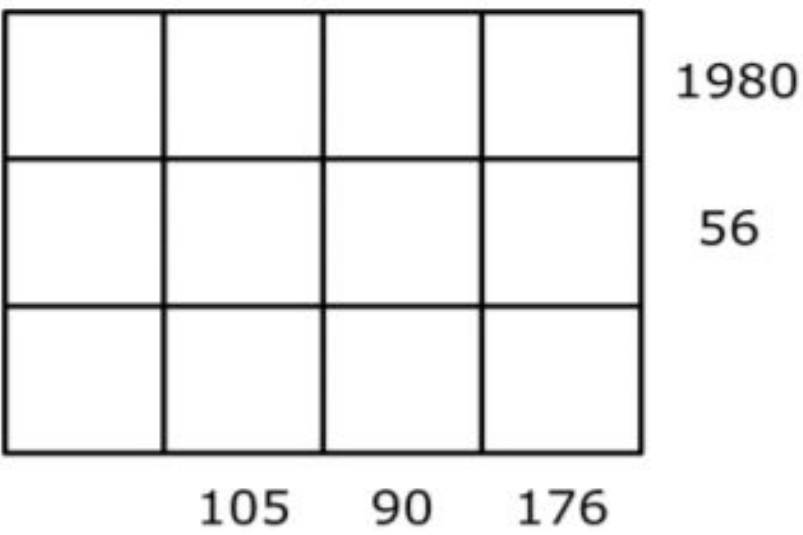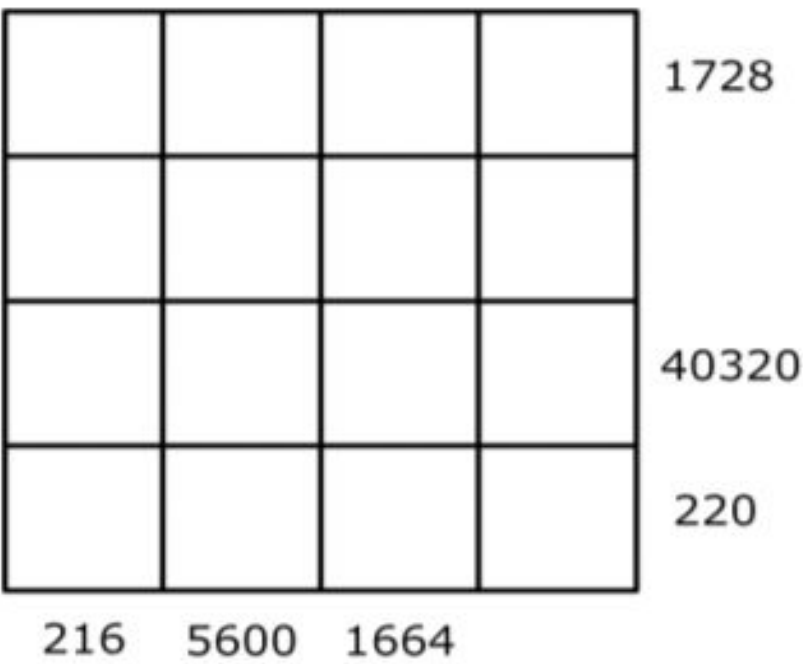| | | | |
|---|---|---|---|
| | | | 24 |
| | | | 40 |
| | | | 378 |
| 60 | 21 | 288 | |

# Explore

**(Additional questions)**

Can you work out where to place the numbers **1-12** in this grid?



Can you work out where to place the numbers **1-12** in this grid?



Can you work out where to place the numbers **1-12** in this grid?



Can you work out where to place the numbers **1-16** in this grid?

# Answers

# Try this

Each blue box is the product of the 3 numbers in that row or column.

For example, 6 x 8 x 3 = 144.

Complete the other blue boxes.

| | | | |
|---|---|---|---|
| 6 | 8 | 3 | 144 |
| 7 | 1 | 5 | 35 |
| 2 | 9 | 4 | 72 |
| 84 | 72 | 60 | |

# Connect

Again, each blue box is the product of the 3 numbers in that row or column.

Complete the other boxes.

I will need to use division as well as multiplication here...

| 4 | 3 | 5 | 60 |
|---|---|---|---|
| 8 | 7 | 6 | 336 |
| 1 | 2 | 9 | 18 |
| 32 | 42 | 270 | |

# Independent task

Again, each blue box is the product of the 3 numbers in that row or column.
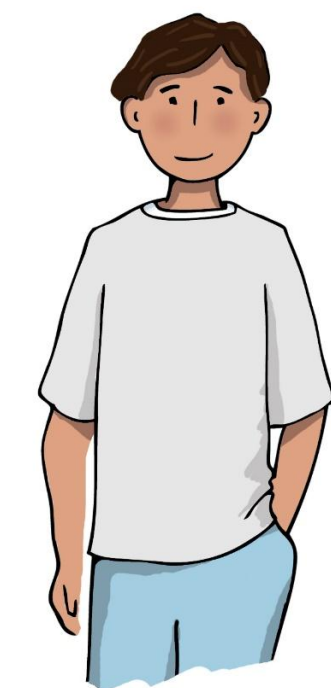
Complete the other boxes.

| | | | |
|---|---|---|---|
| 9 | 3 | 6 | 162 |
| 1 | 7 | 2 | 14 |
| 5 | 4 | 8 | 160 |
| 45 | 84 | 96 | |

# Explore

Again, each blue box is the product of the 3 numbers in that row or column.

Complete the other boxes.

I know where the 5 goes by thinking about which numbers 5 is a **factor** of

| | | | |
|---|---|---|---|
| 2 | 3 | 4 | 24 |
| 5 | 1 | 8 | 40 |
| 6 | 7 | 9 | 378 |
| 60 | 21 | 288 | |