

$$42 \times 13 =$$

$$42 \times 26 =$$

$$21 \times 13 =$$

$$21 \times 26 =$$



Remember that we always start with the units



Is there a pattern you notice?

RECALL


By drawing the grid method can you answer these questions.

$$31 \times 22 =$$

$$45 \times 14 =$$

$$32 \times 21 =$$

 Make sure you use a ruler to set it out.

 Which question did you find more difficult explain why?

**GUIDED
PRACTICE**

LO: multiplying 2 digit by 2 digit numbers using the grid method.

Some will even answer questions out of context.

Some will spot errors in calculations.

Most will use the grid method to find missing numbers in calculations.

All will answer number problems.

LEARNING HABIT DISCIPLINE. |

Use the grid method and the counters to help you answer the questions.



$22 \times 15 =$

$25 \times 12 =$



$35 \times 21 =$

$34 \times 24 =$



$42 \times 35 =$

$44 \times 34 =$



Remember to partition the numbers



Why was three chilli more difficult than the others?

**INTELLIGENT
PRACTICE.**

$$24 \times ?? = 432$$

Use the grid method to work out the missing number

$$35 \times ?? = 490$$

Use the grid method to work out the missing number



Set out the problem properly to help you.



Create a step by step guide explaining how you got the answers.

DIVE DEEPER 1

$$24 \times 18 = 432$$

Use the grid method to work out the missing number

$$35 \times 14 = 490$$

Use the grid method to work out the missing number



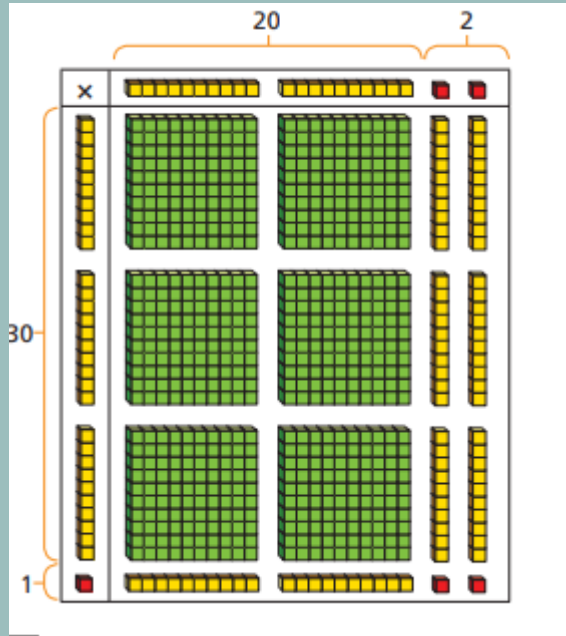
Set out the problem properly to help you.



Create a step by step guide explaining how you got the answers.

**DIVE DEEPER
1 ANSWERS**

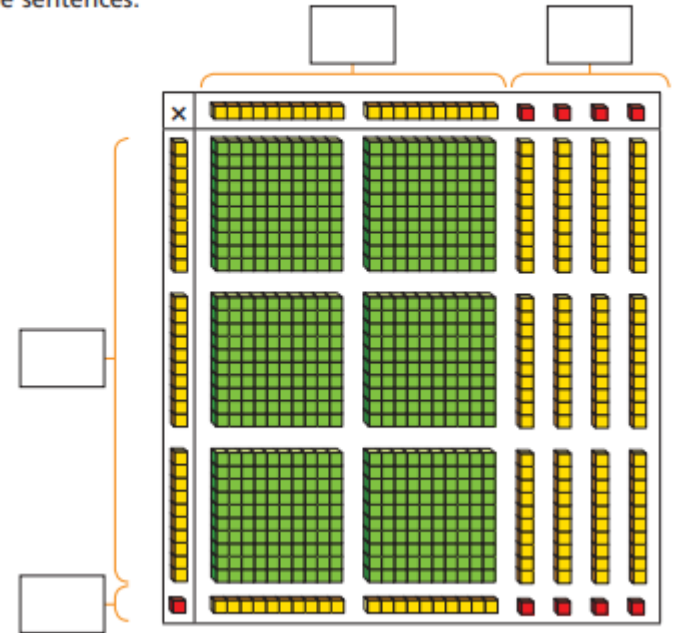
Kim is using base 10 to work out 31×22



Draw the grid method to prove that Kim has set out the problem correctly and answer the question.

Amir is using base 10 to calculate 31×24

a) Add the missing information to the area model and complete the sentences.



Draw the grid method to prove that Amir has set out the problem correctly and answer the question.



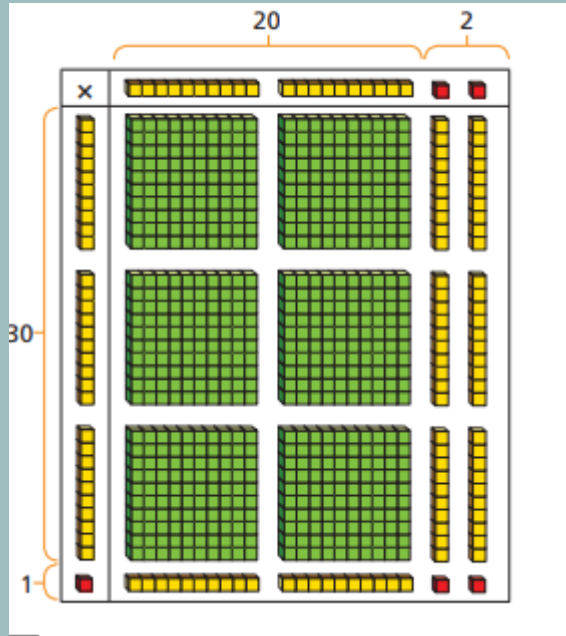
Think about what cube each represents



Do you think this is a good method to work out problems? Explain why?

DIVE DEEPER 2

Kim is using base 10 to work out 31×22



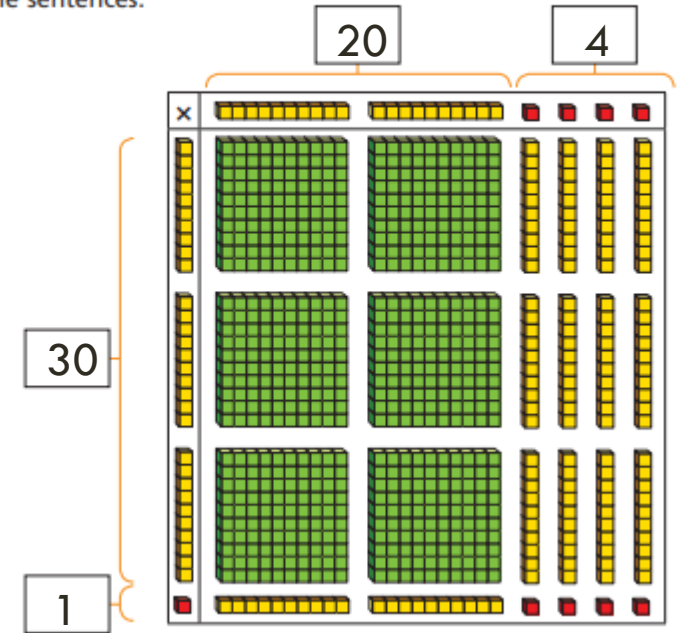
Kim has set it out correctly and the answer is 682

Draw the grid method to prove that Kim has set out the problem correctly and answer the question.

Amir has set it out correctly and the answer is 744

Amir is using base 10 to calculate 31×24

a) Add the missing information to the area model and complete the sentences.



Draw the grid method to prove that Amir has set out the problem correctly and answer the question.



Think about what cube each represents



Do you think this is a good method to work out problems? Explain why?

DIVE DEEPER 2 ANSWERS

Man city's football pitch is 24m in length and 54m in width.

Man Utd's football pitch is 34m in length and 48m in width.

Paul thinks Man utd has the biggest area. Do you agree with Paul? Prove your answer.

Use each digit card once to write a multiplication.



$$\square \times \square = \square$$

How many different answers can you find?

How many products are there between 1,000 and 1,500?

Use the digit card once to write a 2 digit by 2 digit multiplication.

4 5 6 7

How many different answers can you find?

How many products are there between 2,000 and 2,500?



Write or draw out the first problem.



Explain how you got the answers for the second question?

DIVE DEEPER 3

Man city's football pitch is 24m in length and 54m in width.

Man Utd's football pitch is 34m in length and 48m in width.

Paul thinks Man utd has the biggest area. Do you agree with Paul? Prove your answer.

Use each digit card once to write a multiplication.



$$\square \times \square = \square$$

How many different answers can you find?

How many products are there between 1,000 and 1,500?

Use the digit card once to write a 2 digit by 2 digit multiplication.

4 5 6 7

How many different answers can you find?

How many products are there between 2,000 and 2,500?



Write or draw out the first problem.



Explain how you got the answers for the second question?

**DIVE DEEPER 3
ANSWERS**