$$
3 \times 286
$$

HELLO!
Today we are going to do revision on multiplication and division

$$
0^{\circ} 040^{\circ} 0=0^{\circ}
$$

## Arithmetic Warm Up Fractions

THIRD SPACE LEARNING


$$
\text { 4. } 3 \times 1 \frac{}{3}=
$$

# Revision on multiplication and division 



Today we are going to revise how to:recognise and use both square and cube numbersfind common multiples and factors

$$
3^{2}=3 \times 3=9
$$

Multiplied together 2 times
3 squared or 3 to the power of 2

## Cube numbers

$$
2^{3}=2 \times 2 \times 2=8
$$

Multiplied together 3 times
2 cubed or 2 to the power of 3

$$
1=1 \times 1
$$

$$
4=2 \times 2
$$



$$
1 \times(1 \times 1)
$$

$$
=1
$$

$$
=2 \times 4
$$

$$
=8
$$

$$
\text { What is } 4^{2}-2^{3}
$$

Can you count up in square numbers from $1 \times 1=1$ up to $12 \times 12=144$

## Question 1

## Complete



## Finding common factors and multiples

Multiple: a number multiplied by a given number
$\checkmark 21$ is a multiple of 7 because $7 \times 3=21$

Common Multiple: a multiple for different numbers
$\checkmark 12=6 \times 2=3 \times 4$
$\checkmark$ So 12 is a common multiple of $2,3,4$, and 6

Factor: a number that divides into a given number without a remainder
$\checkmark 5$ and 2 are factors of 10

Common factor: a factor for different numbers
$\checkmark 6=2 \times 3$ and $14=2 \times 7$
$\checkmark$ So 2 is a common factor of 6 and 14

Complete:


Write all the numbers between 50 and 100 that are factors of 180.

## Question 2

## Complete

| $\begin{aligned} & \text { What do you } \\ & \text { notice? } \end{aligned}$ | Here is a diagram for so <br> Write one number in eac <br> One is done for you. | numbers. <br> multiple of 5 | not a multiple of 5 | What do you know? |
| :---: | :---: | :---: | :---: | :---: |
|  | multiple of 3 <br> not a multiple of 3 | $30$ |  | How could you extend 3 the question? |

## Complete

| OWhat do you <br> notice? | List all the factors of 48 that are also factors of 56. | What do you <br> know? |
| :---: | :---: | :---: |
| can you <br> show your <br> working out? |  | How could <br> you extend <br> the question? |

## Let's review:

๑
I can solve problems involving square and cube numbers

๑
I can solve problems involving factors and multiples

Draw a circle around the smiley face to show how you feel about what we've just been doing.


Is there something you would like to go over before we move on?

# Revision on multiplication and division 



Now we are going to revise how to:

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identify and recognise prime numbers and prime factorsdivide and multiply by 10, 100, 1000

## Prime numbers and prime factors

分 Complete the definition.
A prime number is a number that has exactly


These two factors are always


Write 24 as a product of its prime numbers by decomposition

(2) $x$

The prime factors of 24 are:

This can also be written as:

## Question 4

Complete


# Multiplying and dividing by $10,100,1000$ 



When multiplying by 100, the digits move
 places to the $\qquad$

What happens with 10 and 1000?

When you divide by 100, the digits move $\square$ places to the

3. $4.59 \div 10=$



## Question 5

 LEARNING
## Complete

| QWhat do you | A Sophie is thinking of a number. <br> She multiplies by 1000 and then divides by 10 . <br> The answer is 578. <br> What was the number Sophie thought of? | What do you know? |
| :---: | :---: | :---: |
| Can you show your working out? | B $\square$ $\times 10=64000 \div 200$ <br> C $\frac{1}{10}$ of $1.36=$ $\square$ | How could you extend the question? |

## Let's review:

๑
I can identify and recognise prime numbers and prime factors

๑
I can divide and multiply by 10, 100, 1000

Draw a circle around the smiley face to show how you feel about what we've just been doing.


Is there something you would like to go over before we move on?

