5NPV-4 WALT Divide 1 into 2, 4, 5 and 10 equal parts, and read scales/number lines marked in units of 1 with 2, 4, 5 and 10 equal parts.

Vocab bank:

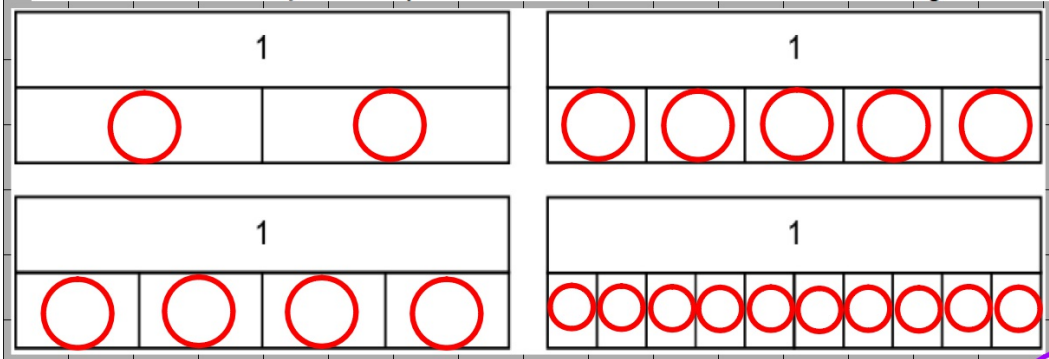
2hp per word when used in reasoning!

scale, number line, bar model, equal parts, units, intervals, up, down, pattern, count, decimal, tenths, hundredths.

5NPV-4 WALT Divide 1 into 2, 4, 5 and 10 equal parts, and read scales/number lines marked in units of 1 with 2, 4, 5 and 10 equal parts.

Mega challenge 3 MINS!

Using the bar models below, divide **1** into 2, 4, 5 or 10 equal parts (draw them in your book).



Fill in the missing numbers.

	7.5	7		6		
		4.4	4.6			5.2
2.5		3			3.75	

Vocab bank:

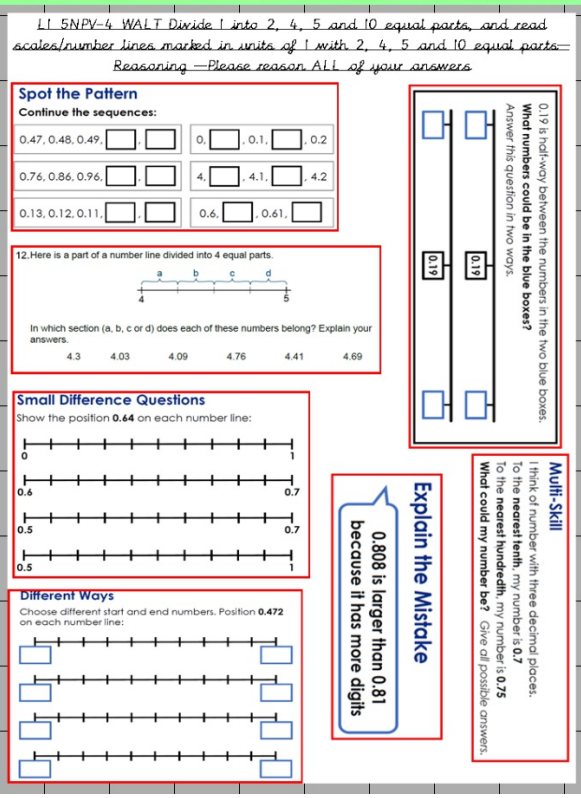
2hp per word when u reasoning!

scale, number line, model, equal parts, intervals, up, down, count, decimal, te hundredths.

en marking answers, if you get one wrong, please only put a dot/X. DO NOT write the correct answ

5NPV-4 WALT Divide 1 into 2, 4, 5 and 10 equal parts, and read scales/number lines marked in units of 1 with 2, 4, 5 and 10 equal parts.

If you got the mega challenge correct, start working independently on the REASONING AND PROBLEM SOLVING QUESTIONS. Please reason every question!



L1 5NPV-4 WALT Divide 1 into 2, 4, 5 and 10 equal parts, and read scales/number lines marked in units of 1 with 2, 4, 5 and 10 equal parts— Reasoning —Please reason ALL of your answers

Spot the Pattern

Continue the sequences:

0.47, 0.48, 0.49, ☐, ☐ | 0, ☐, 0.1, ☐, 0.2

0.76, 0.86, 0.96, ☐, ☐ | 4, ☐, 4.1, ☐, 4.2

0.13, 0.12, 0.11, ☐, ☐ | 0.6, ☐, 0.61, ☐

12. Here is a part of a number line divided into 4 equal parts.

a b c d

4 5

In which section (a, b, c or d) does each of these numbers belong? Explain your answers.

4.3 4.03 4.09 4.76 4.41 4.69

Small Difference Questions

Show the position **0.64** on each number line:

0 1

0.6 0.7

0.5 0.7

0.5 1

Different Ways

Choose different start and end numbers. Position **0.472** on each number line:

0.19 is half-way between the numbers in the two blue boxes.

What numbers could be in the blue boxes?

Answer this question in two ways.

0.19 0.19

Explain the Mistake

0.808 is larger than 0.81 because it has more digits

Multi-Skill

I think of number with three decimal places.

To the **nearest tenth**, my number is **0.7**

To the **nearest hundredth**, my number is **0.75**

What could my number be? Give all possible answers.

Vocab bank:

2hp per word when used in reasoning!

scale, number line, bar model, equal parts, units, intervals, up, down, pattern, count, decimal, tenths, hundredths.

5NPV-4 WALT Divide 1 into 2, 4, 5 and 10 equal parts, and read scales/number lines marked in units of 1 with 2, 4, 5 and 10 equal parts.

Practise counting in multiples of 0.1 from 0, or from any multiple of this number, both forwards and backwards

0, 0.1, ___, ___, ___, ___, 0.6, ___, ___, ___, ___, ___, 1.2, ___, ___, ___, ___, ___.

5.7, 5.8, ___, ___, ___, ___, 6.3, ___, ___, ___, ___, ___, ___, ___, 7.2, ___, ___.

8.9, 8.8, 8.7, ___, ___, ___, ___, ___, ___, ___, ___, ___, ___, ___, ___.

5NPV-4 WALT Divide 1 into 2, 4, 5 and 10 equal parts, and read scales/number lines marked in units of 1 with 2, 4, 5 and 10 equal parts.

Practise counting in multiples of 0.2 from 0, or from any multiple of this number, both forwards and backwards.

0, 0.2, ___, ___, ___, ___, 1.2, ___, ___, ___, ___, ___, 2.4, ___, ___, ___, ___, ___.

6.4, 6.2, ___, ___, ___, ___, 5.2, ___, ___, ___, ___, ___, ___, ___, 3.6, ___, ___.

Vocab bank:

2hp per word when used i reasoning!

scale, number line, bar model, equal parts, unit intervals, up, down, patt count, decimal, tenths, hundredths.

5NPV-4 WALT Divide 1 into 2, 4, 5 and 10 equal parts, and read scales/number lines marked in units of 1 with 2, 4, 5 and 10 equal parts.

Practise counting in multiples of 0.25 from 0, or from any multiple of this number, both forwards and backwards.

0, 0.25, ___, ___, ___, ___, 1.5, ___, ___, ___, ___, ___, 3, ___, ___, ___, ___, ___.

7.75, 7.5, ___, ___, ___, ___, 6.25, ___, ___, ___, ___, ___, ___, ___, 4.25, ___, ___.

Vocab bank:

2hp per word when used i reasoning!

scale, number line, bar model, equal parts, unit intervals, up, down, patt count, decimal, tenths, hundredths.

5NPV-4 WALT Divide 1 into 2, 4, 5 and 10 equal parts, and read scales/number lines marked in units of 1 with 2, 4, 5 and 10 equal parts.

Practise counting in multiples of 0.5 from 0, or from any multiple of this number, both forwards and backwards.

0, 0.5, ___, ___, ___, ___, 3, ___, ___, ___, ___, ___, 6, ___, ___, ___, ___, ___.

12.5, 12, ___, ___, ___, ___, 9.5, ___, ___, ___, ___, ___, ___, ___, 5.5, ___, ___.

Vocab bank:

2hp per word when used i reasoning!

scale, number line, bar model, equal parts, unit intervals, up, down, patt count, decimal, tenths, hundredths.

5NPV-4 WALT Divide 1 into 2, 4, 5 and 10 equal parts, and read scales/number lines marked in units of 1 with 2, 4, 5 and 10 equal parts.

Number bonds to 1

Say a multiple of 0.1, 0.2, 0.25, 0.5 or 0.75 up to 1, throw a beanbag/ball to a child as you say your number. The child should say the number bond to 1.

e.g. 0.4 and 0.6, 0.25 and 0.75

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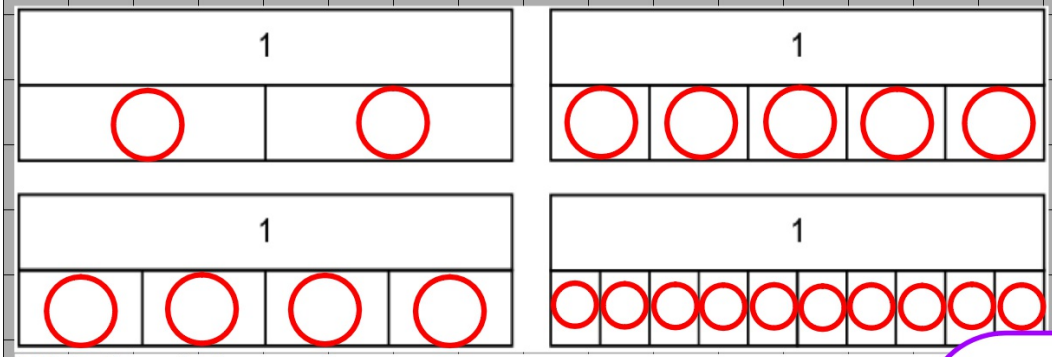
Mega challenge 2

3 MINS!

Using the bar models below, divide 1 into 2, 4, 5 or 10 equal parts (draw them in your book).



Fill in the missing numbers.

	7.5	7		6		
		4.4	4.6			5.
2.5		3			3.75	

Vocab bank:

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L1 5NPV-4 WALT Divide 1 into 2, 4, 5 and 10 equal parts, and read scales/number lines marked in units of 1 with 2, 4, 5 and 10 equal parts—Fluency —Please reason 2 questions of your choice

Please count in multiples of 0.2

2.2 ___ ___ 2.8 ___ ___ 3.4___ ___ ___ 4.2

4.2___ ___ 3.6 ___ ___ 3 ___ ___

Please count in multiples of 0.25

1.25 ___ ___ 2 ___ ___ 2.75 ___ ___

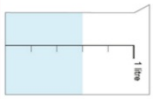
6.75 ___ ___ 5 ___ ___ 5.25 ___

Please count in multiples of 0.5

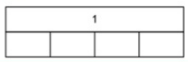
5.5 ___ ___ 7 ___ ___ ___ 8.5 ___

10.5 ___ ___ 9 ___ ___ 7.5 ___

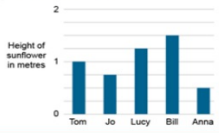
Here is a 1 litre beaker with some liquid in. How much more liquid do you need to add to the beaker to make 1 litre?



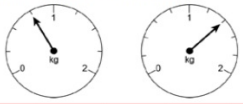
1. Fill in the missing parts, and write as many different equations as you can think of to represent the bar model.



3. 5 children have been growing sunflowers. The bar chart shows how tall each child's sunflower has grown. How tall is each flower?



What is the reading on each of these scales, in kilograms?



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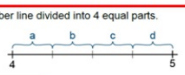
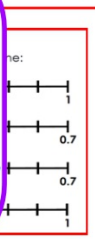
12. Here is a part of a number line divided into 4 equal parts.

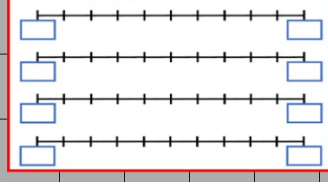


...of these numbers belong? Explain your

4.76 4.41 4.69



Choose different start and end numbers. Position **0.472** on each number line:



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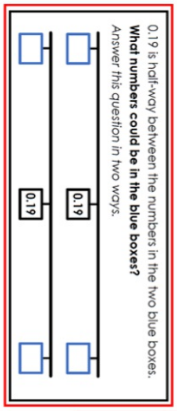
Answer this question in two ways.



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Multi-Skill

I think of number with three decimal places.

To the **nearest tenth**, my number is **0.7**

To the **nearest hundredth**, my number is **0.75**

What could my number be? *Give all possible answers.*

Vocab bank:

2hp per word when used in reasoning!

scale, number line, bar model, equal parts, units, intervals, up, down, pattern, count, decimal, tenths, hundredths.

5NPV-5 WALT Convert between units of measure, including using common decimals and fractions.

Vocab bank:

2hp per word when used in reasoning!

convert, units of measure, common decimals, fractions, equivalent to, ratio table, corresponds, parts.

5NPV-5 WALT Convert between units of measure, including using common decimals and fractions.

Mega challenge  3 MINS!

1km = ☐ m 1m = ☐ cm 1cm = ☐ mm

1 litre = ☐ ml 1kg = ☐ g £1 = ☐ p

Complete the ratio tables:

1m	100cm
$\frac{3}{4}$m	☐ cm

100p	£1
☐ p	£0.52

1,000ml	1 litre
3,700ml	☐ litres

5NPV-5 WALT Convert between units of measure, including using common decimals and fractions.

If you got the mega challenge correct, start working independently on the REASONING AND PROBLEM SOLVING QUESTIONS. Please reason every question!

Vocab bank:

2hp per word when used in reasoning!

convert, units of measure, common decimals, fractions, equivalent to, ratio table, corresponds, parts.

5NPV-5 WALT Convert between units of measure, including using common decimals and fractions.

Using Chesswood Cards, make some new recall cards for these unit conversions:

Vocab bank:
2hp per word when used in reasoning!
convert, units of measure, common decimals, fractions, equivalent to, ratio table, corresponds, parts.

1km = 1,000m	1m = 100cm	1cm = 10mm
1 litre = 1,000ml	1kg = 1,000g	£1 = 100p

Front

1km

Back

1,000m

Recall on own and then with a partner for 5 mins.

5NPV-5 WALT Convert between units of measure, including using common decimals and fractions.

Once I know that £1 = 100p

I can work out £4 = [redacted]

Once I know that 1kg = 1,000g

I can work out 8,000g = [redacted]

Vocab bank:

2hp per word when used in re

convert, units of me

common decimals, fra

equivalent to, ratio

corresponds, part

5NPV-5 WALT Convert between units of measure, including using common decimals and fractions.

Convert from and to fraction and decimal-fraction quantities of larger units, within 1:

Distance in km expressed as a fraction	Distance in km expressed as a decimal fraction	Distance in metres
$\frac{1}{5}$km	0.2km	200m
$\frac{1}{4}$km	0.25km	250m
$\frac{1}{2}$km	0.5km	500m
$\frac{3}{4}$km	0.75m	750m
$\frac{1}{10}$km	0.1km	100m
all other multiples of $\frac{1}{10}$km , for example, $\frac{7}{10}$km	0.7km	700m

How would you work out how many metres are in 3/4 of a km?

Teacher note:

5NPV-5 WALT Convert between units of measure, including using common decimals and fractions.

Convert 3, 7 0 0 millilitres to litres.

You should not need to think about dividing by 1,000 and moving the digits 3 places.

Instead you should be able to use single unit conversion rates and use your understanding of place value.

Vocab bank:

2hp per word when used in re
convert, units of mea
common decimals, fra
equivalent to, ratio
corresponds, part

5NPV-5 WALT Convert between units of measure, including using common decimals and fractions.

Language focus

"1,000ml is 1 litre."

"So 3,000ml is 3 litres, and 3,700ml is 3.7 litres."

Language focus

"1m is 100cm."

"So $\frac{3}{4}$m is 75cm."

Language focus

"100p is £1."

"So 50p is £0.50, and 52p is £0.52."

Vocab bank:

2hp per word when used in re

convert, units of mea

common decimals, fra

equivalent to, ratio

corresponds, part

For pounds and pence, and metres and centimetres, you should be able to carry out conversions that correspond to 100 parts, for example, 52p = £0.52, and 43cm = 0.43m.

5NPV-5 WALT Convert between units of measure, including using common decimals and fractions.

Ratio tables can be used to help you.

1m	100cm
$\frac{3}{4}$m	75cm

100p	£1
52p	£0.52

1,000ml	1 litre
3,700ml	3.7 litres

Vocab bank:

2hp per word when used in reasoning!

convert, units of measure, common decimals, fractions, equivalent to, ratio table, corresponds, parts.

5NPV-5 WALT Convert between units of measure, including using common decimals and fractions.

Mega challenge 2

 3 MINS!

1km = ☐ m 1m = ☐ cm 1cm = ☐ mm

1 litre = ☐ ml 1kg = ☐ g £1 = ☐ p

Complete the ratio tables:

1m	100cm
$\frac{3}{4}$m	☐ cm

100p	£1
☐ p	£0.52

1,000ml	1 litre
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6NPV-1 WALT Understand the relationship between powers of 10 from 1 hundredth to 10 million, and use this to make a given number 10, 100, 1,000, 1 tenth, 1 hundredth or 1 thousandth times the size.

Vocab bank:

2hp per word when used in reasoning!

...

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Mega challenge  3 MINS!

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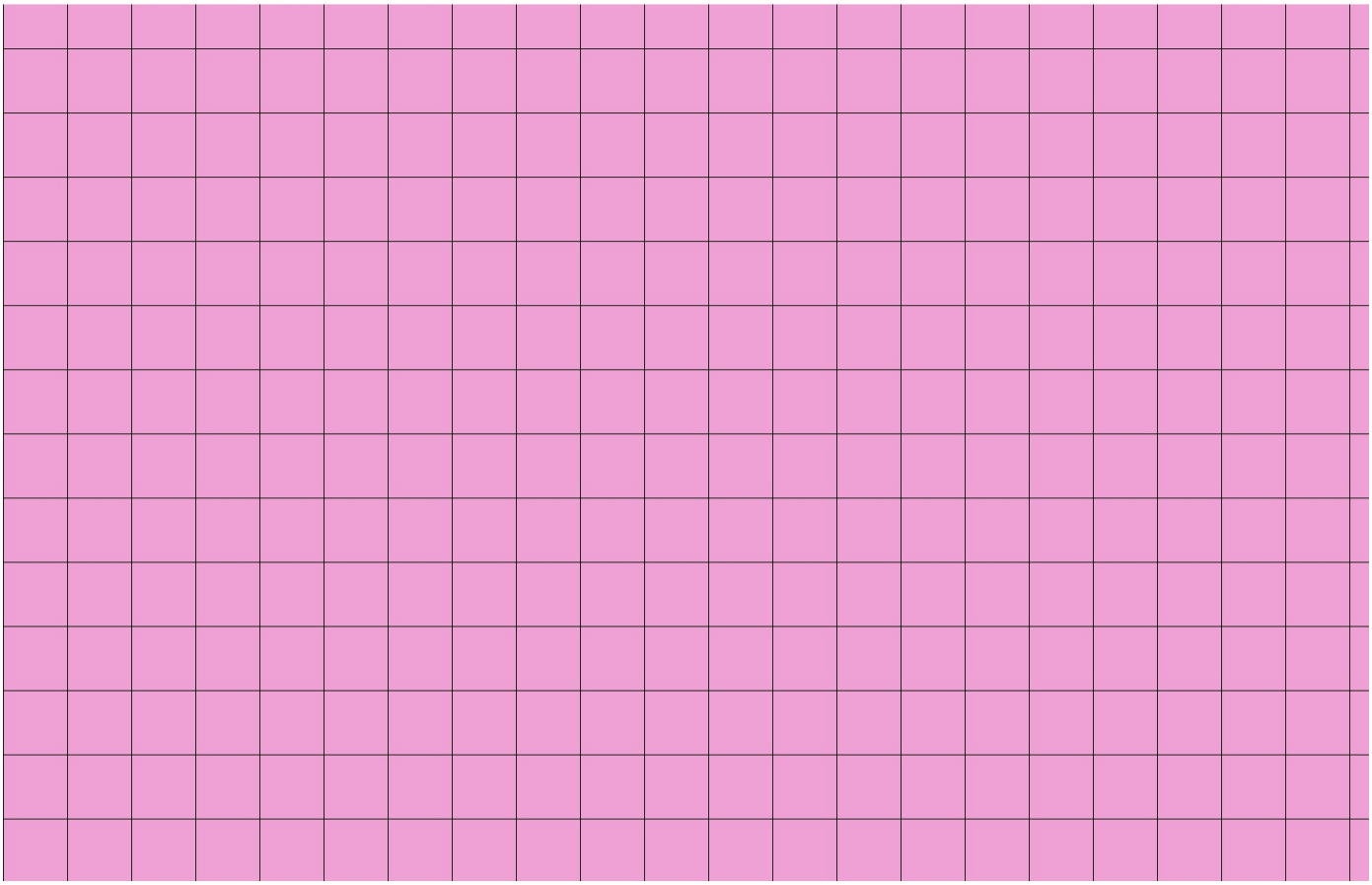

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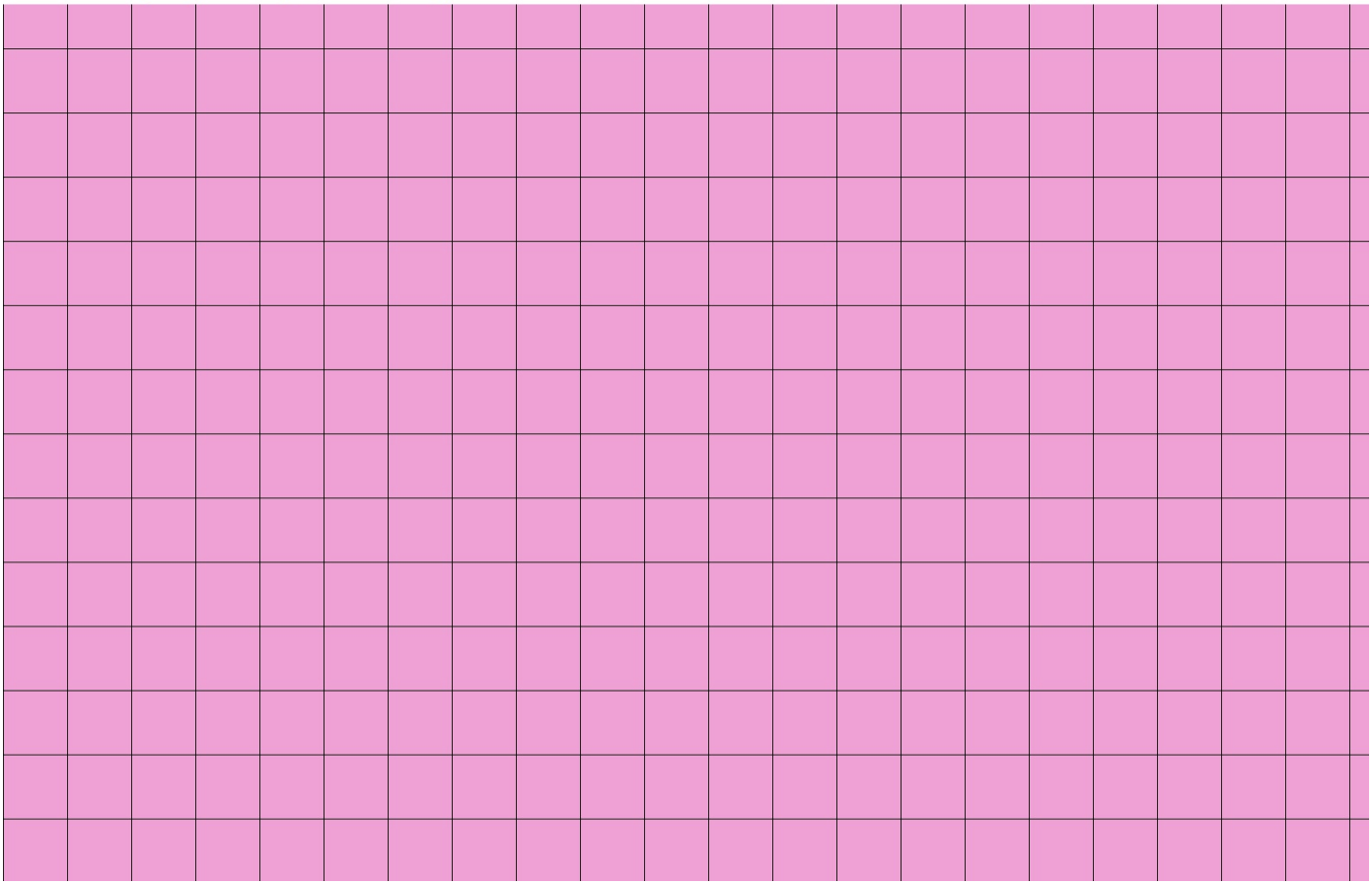

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Mega challenge 2

3 MINS!

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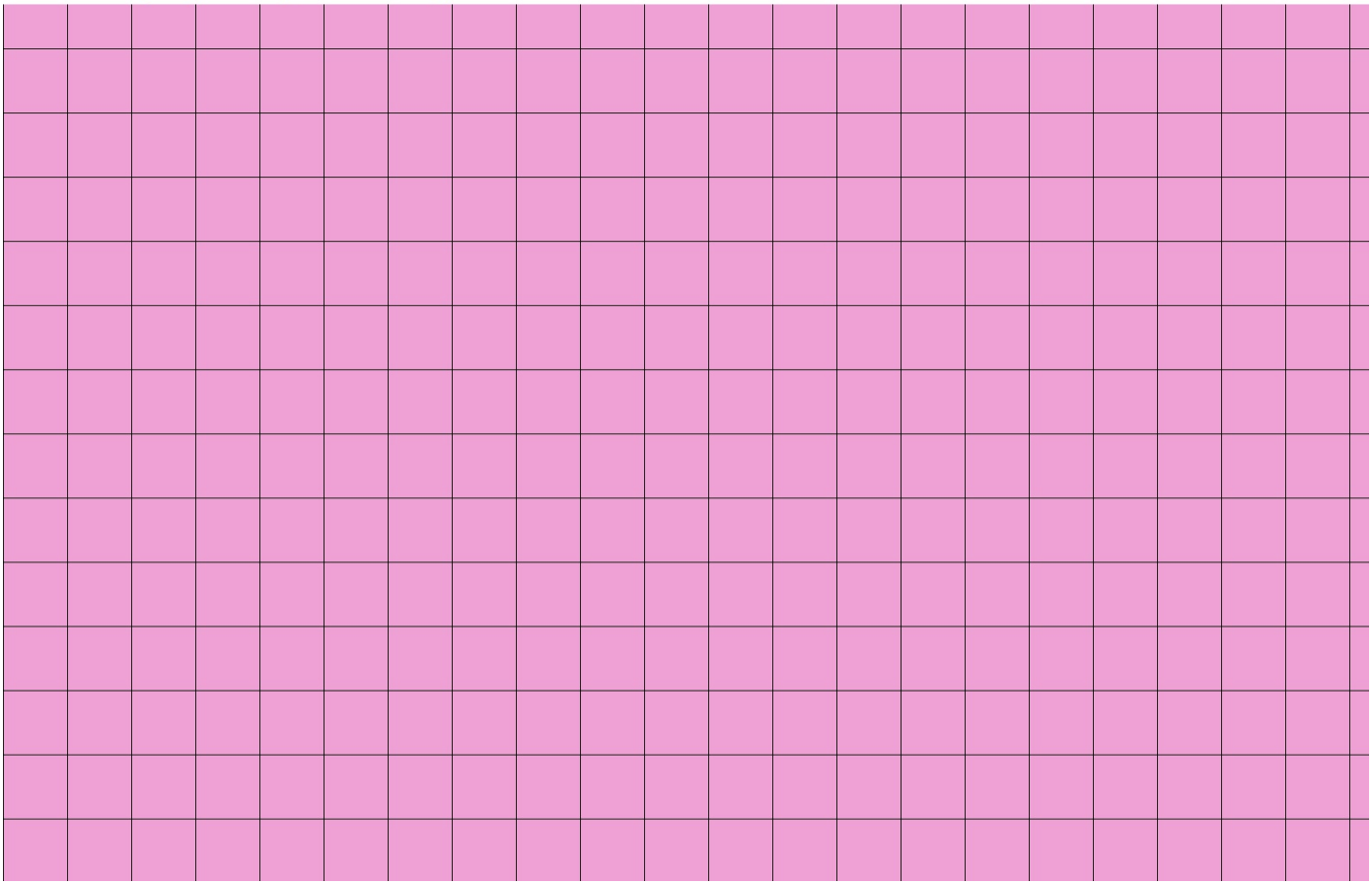

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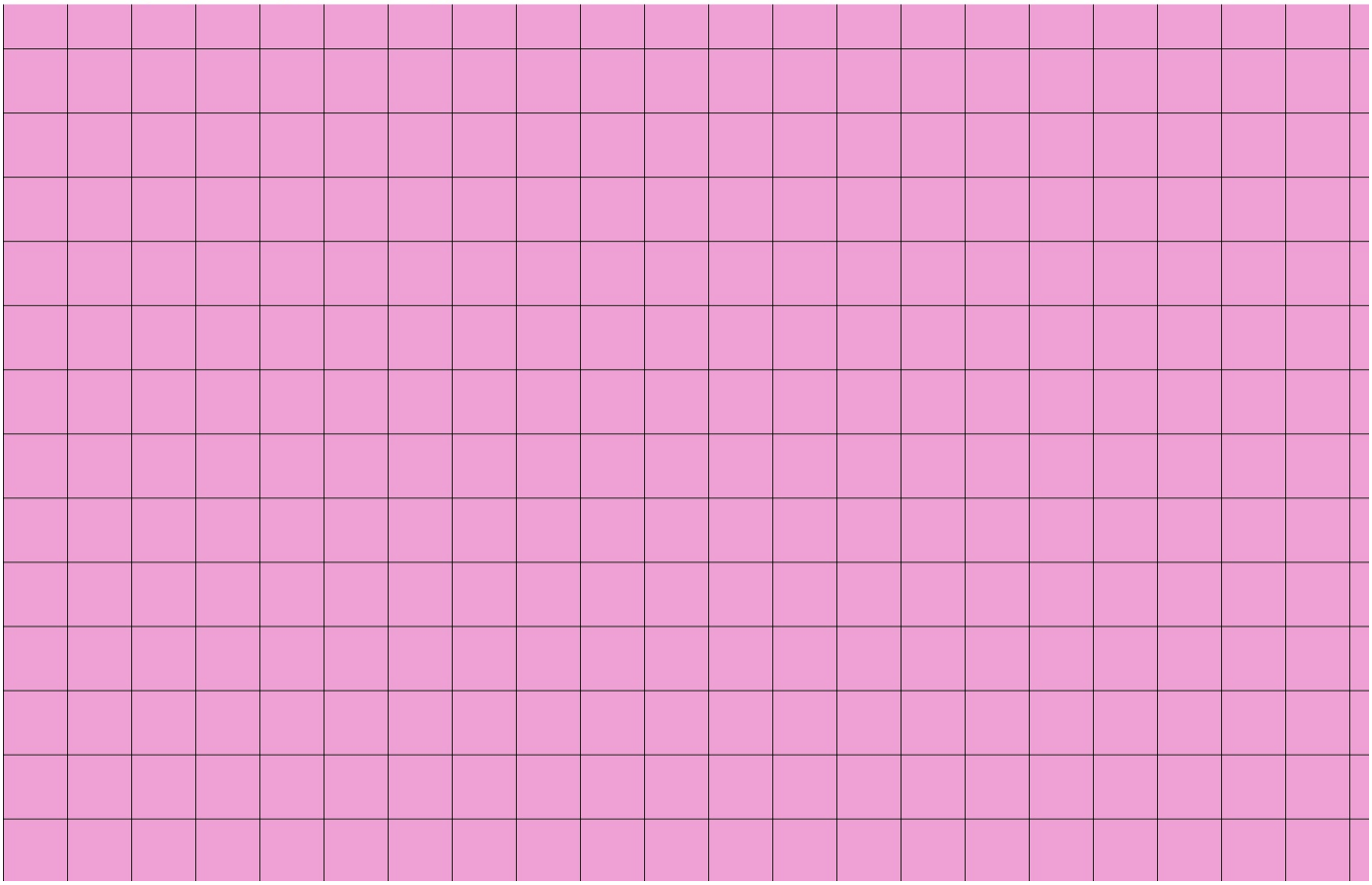

6NPV-2 WALT Recognise the place value of each digit in numbers up to 10 million, including decimal fractions, and compose and decompose numbers up to 10 million using standard and non-standard partitioning.

Vocab bank:

2hp per word when used in reasoning!

...

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Mega challenge  3 MINS!

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Mega challenge 2  3 MINS!

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6NPV-4 WALT Divide powers of 10, from 1 hundredth to 10 million, into 2, 4, 5 and 10 equal parts, and read scales/number lines with labelled intervals divided into 2, 4, 5 and 10 equal parts.

Vocab bank:

2hp per word when used in reasoning!

...

6NPV-4 WALT Divide powers of 10, from 1 hundredth to 10 million, into 2, 4, 5 and 10 equal parts, and read scales/number lines with labelled intervals divided into 2, 4, 5 and 10 equal parts.

Mega challenge

3 MINS!

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3 MINS!

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