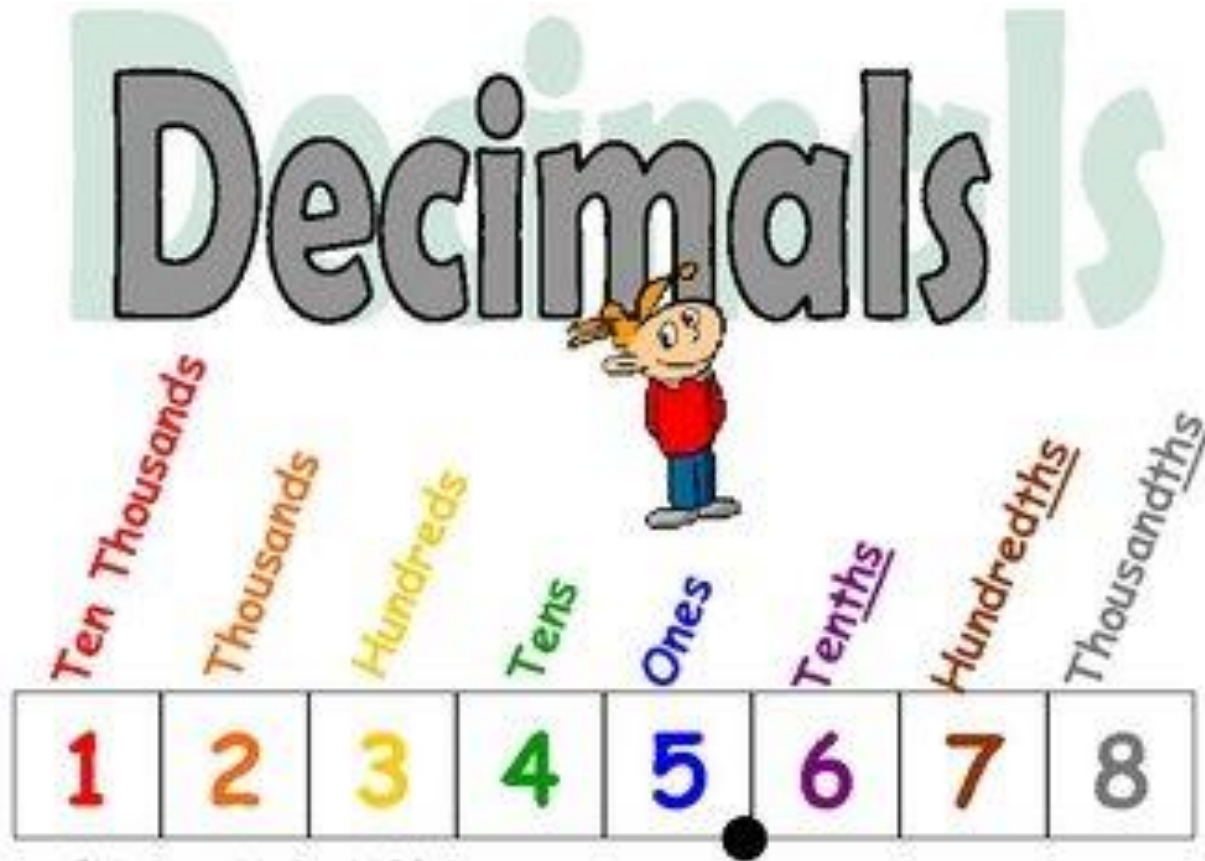


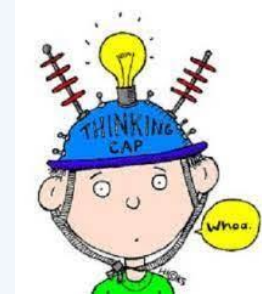
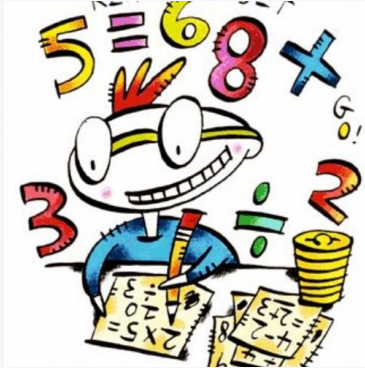
Spring 1 -Week 2 Decimals 11.1.23



<https://www.mathsisfun.com/worksheets/decimals.php>

<https://www.bbc.co.uk/bitesize/topics/zsjqtfr/articles/zsbd7p3>

Maths Three Repeating Golden Threads



Fluency

Quick and efficient recall of facts and procedures

Mastery

Pupils acquire a deep, long-term, secure adaptable understanding

Application

The use of maths everyday in the real world, outside the classroom.



mastery ↔ fluency ↔ application

Term Spring 1 Week beginning 10/1/23

Block Decimals

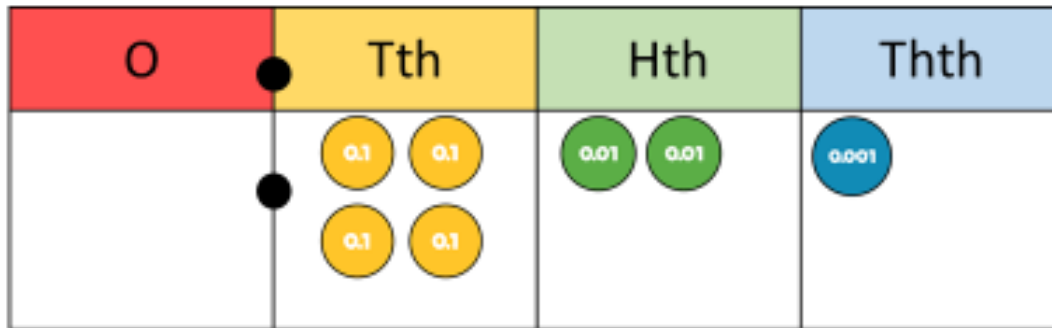
Key vocabulary tenths hundredths
decimal point thousandths whole number
rounding place value digit column

	B	W	S
Place value within 1			
Place value - integers and decimals			
Round decimals			
Add and subtract decimals			
Multiply by 10, 100 and 1,000			
Divide by 10, 100 and 1,000			
Multiply decimals by integers			
Divide decimals by integers			

Stem sentences

- There are ones, tenths, hundredths and thousandths
- The number is
- There are in
- is 10/100/1,000 times the size of
- is one-tenth/hundredth/thousandth the size of
- The previous/next multiple of is
- is closer to than
- So rounded to the nearest is

Tues 10.1.22 : LO: To identify the value of each digit in decimal numbers



1a) What number is represented in the place value chart?

1b) Subtract 2 hundredths from the place value chart. What is the new number?

2) Complete the statements:

$0.67 = 0 \text{ ones} + \text{ ____ } \text{ tenths} + \text{ ____ } \text{ hundredths}$

$0.67 = \text{ ____ } + \text{ ____ }$

**Do now-
books!**

O	Tth	Hth	Thth
			

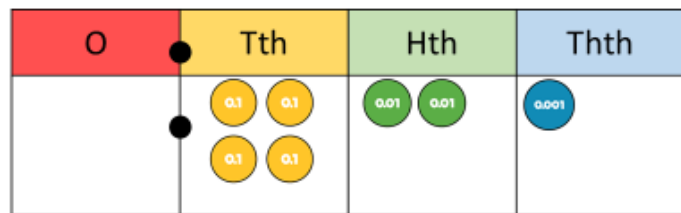
1a) What number is represented in the place value chart? **0.421**

1b) Subtract 2 hundredths from the place value chart. What is the new number? **0.401**

2) Complete the statements:

$0.67 = 0 \text{ ones} + \underline{6} \text{ tenths} + \underline{7} \text{ hundredths}$

$0.67 = \underline{0.6} + \underline{0.07}$



1a) What number is represented in the place value chart?

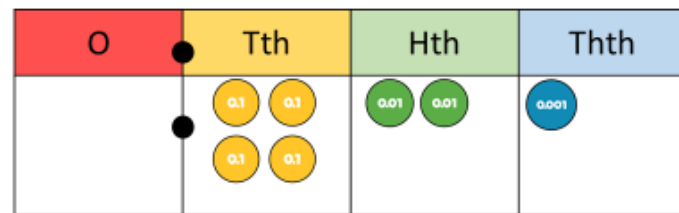
1b) Subtract 2 hundredths from the place value chart. What is the new number?

2) Complete the statements:

0.67 = 0 ones + ___ tenths + ___ hundredths

0.67 = ___ + ___

Tues



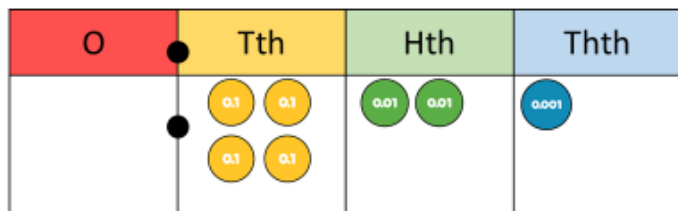
1a) What number is represented in the place value chart?

1b) Subtract 2 hundredths from the place value chart. What is the new number?

2) Complete the statements:

0.67 = 0 ones + ___ tenths + ___ hundredths

0.67 = ___ + ___



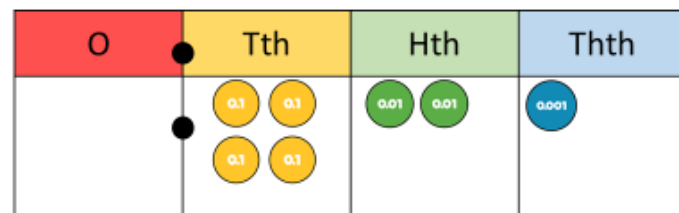
1a) What number is represented in the place value chart?

1b) Subtract 2 hundredths from the place value chart. What is the new number?

2) Complete the statements:

0.67 = 0 ones + ___ tenths + ___ hundredths

0.67 = ___ + ___



1a) What number is represented in the place value chart?

1b) Subtract 2 hundredths from the place value chart. What is the new number?

2) Complete the statements:

0.67 = 0 ones + ___ tenths + ___ hundredths

0.67 = ___ + ___

Crucial vocabulary

tenths — the first number to the right of the decimal point

Hundredths: The second decimal place to the right of the decimal point; 1 of 100 equal parts. Example: .8 7

Thousandths: The third decimal place to the right of the decimal point; 1 of 100 equal parts. Example: .6 4 3

Decimal Point: A period separating the ones and tenths in a decimal number.
Example: **7.4**

Whole Numbers: The set of all counting numbers and 0. Example: **296**

<https://vimeo.com/487198038>- Decimals multiplication

Crucial vocabulary

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Decimal Point: A period separating the ones and tenths in a decimal number.
Example: **7.4**

Whole Numbers: The set of all counting numbers and 0. Example: **296**

Tues



Three Decimal Places



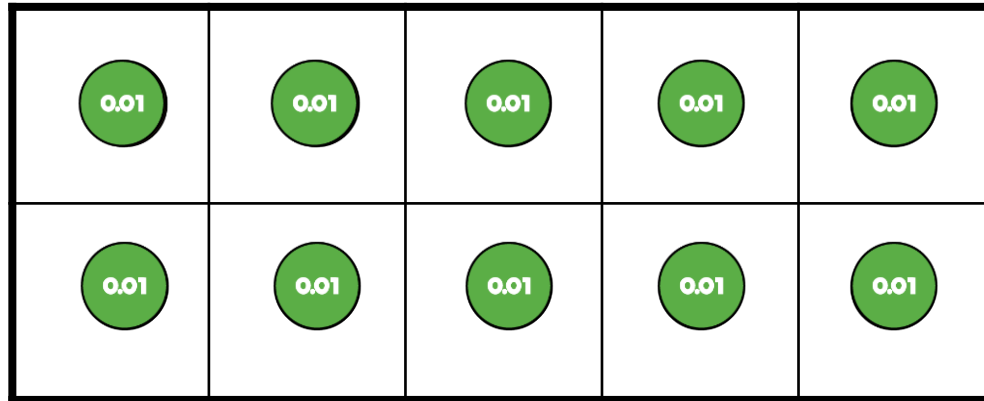
Write the decimal number shown on this place value chart.

Tens	Ones	tenths	hundredths	thousandths
				

21.513

The frame is worth 1 whole.

What would each square be worth?

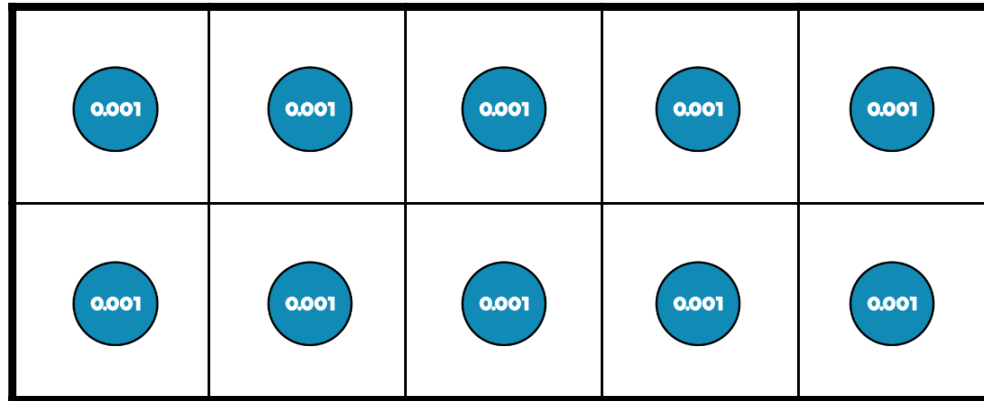


10 ones = 1 ten

10 tenths = 1 whole

10 hundredths = 1 tenth

The frame is worth 1 hundredth.
What would each square be worth?



10 ones = 1 ten

10 tenths = 1 whole

10 hundredths = 1 tenth

10 thousandths = 1 hundredth



What are the values of the underlined digits in the following numbers?

45.173

8.280

20.63

101.003

one
tenth

eight
hundredths

six
tenths

three
thousandths



O	Tth	Hth	Thth
	● ● 0.1 0.1 0.1 0.1 0.1	● 0.01 0.01 ● 0.01 0.01 ● 0.01 0.01	● 0.001 0.001 ●

There are ones, tenths, hundredths
and thousandths.

The number is



O	Tth	Hth	Thth
	● ● 0.1 0.1 0.1		0.001 0.001 0.001 0.001

There are ones, tenths, hundredths
and thousandths.

The number is

Have a think 

Use a place value chart and plain counters to represent 0.051

O	Tth	Hth	Thth

Use a place value chart and plain counters to represent 0.051

O	Tth	Hth	Thth

Use a place value chart and plain counters to represent 0.051

O	Tth	Hth	Thth

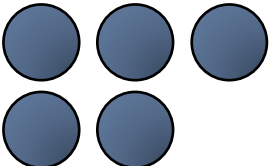
Use a place value chart and plain counters to represent 0.051

O	Tth	Hth	Thth

Tues



Use a place value chart and plain counters to represent 0.051

O	Tth	Hth	Thth
			

There are ones, tenths, hundredths
and thousandth.

Have a think

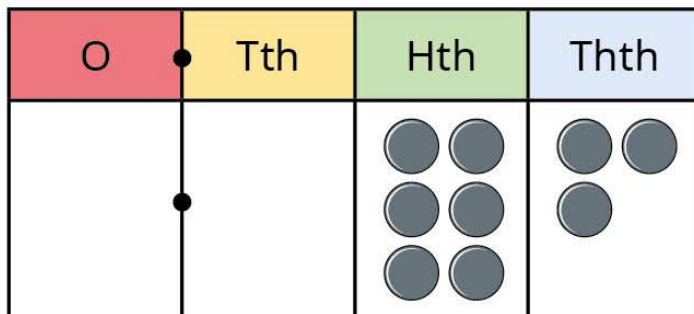




Your turn

1

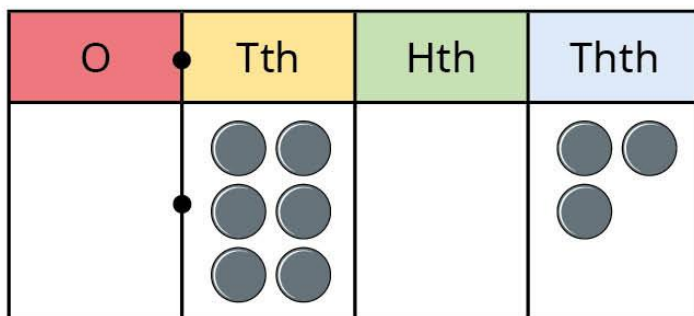
b)



There are ones,
tenths, hundredths and
 thousandths.

The number is

c)



There are ones,
tenths, hundredths and
 thousandths.

The number is

Tues



2

Use counters to make each number on a place value chart.

Draw your answers and complete the sentences.

a) 0.254

O	Tth	Hth	Thth

There are ones,
tenths, hundredths and
 thousandths.

2

b) 0.701

O	Tth	Hth	Thth

There are ones,
tenths, hundredths and
 thousandth.

c) 0.063

O	Tth	Hth	Thth

There are ones,
tenths, hundredths and
 thousandths.

2

b) 0.701

O	Tth	Hth	Thth

There are ones,
tenths, hundredths and
 thousandth.

c) 0.063

O	Tth	Hth	Thth

There are ones,
tenths, hundredths and
 thousandths.

Triangles- use bottle tops!

Decimal Place Value Challenge

Arrange all the digits to make a 4-digit number with 2-decimal places that meets the given criteria.

1. Between 23 and 25:

6, 9, 4, 2

T	O	.	t h

2. Between 29 and 31:

1, 0, 3, 5

T	O	.	t h

3. Between 52 and 54:

3, 7, 5, 8

T	O	.	t h

4. Between 15 and 17:

2, 6, 1, 3

T	O	.	t h

Decimal Place Value Challenge

Arrange all the digits to make a 4-digit number with 2-decimal places that meets the given criteria.

1. Between 23 and 25:

6, 9, 4, 2

T	O	.	t h

2. Between 29 and 31:

1, 0, 3, 5

T	O	.	t h

3. Between 52 and 54:

3, 7, 5, 8

T	O	.	t h

4. Between 15 and 17:

2, 6, 1, 3

T	O	.	t h

Tues

Approved ✓

Dora is using place value counters to partition 0.137



$$0.137 = 0.1 + 0.03 + 0.007$$

Use Dora's method to partition:

$$0.573 = 0.5 + 0.07 + 0.003$$

$$0.39 = 0.3 + 0.09$$

Have a think 

Guided...

Complete the number sentences.

$$0.2 + 0.06 + 0.009 = 0.269$$

$$0.4 + \underline{0.05} + 0.001 = 0.\underline{4}51$$

Have a think



$$0.6 + 0.003 = 0.603$$

There are 0 ones, 4 tenths, 6 hundredths
and 3 thousandths.

3

Ron is using place value counters to partition 0.325



0.325 can
be partitioned into
3 tenths, 2 hundredths
and 5 thousandths.

$$0.325 = 0.3 + 0.02 + 0.005$$

Use Ron's method to partition the numbers.

3

Ron is using place value counters to partition 0.325



0.325 can
be partitioned into
3 tenths, 2 hundredths
and 5 thousandths.

$$0.325 = 0.3 + 0.02 + 0.005$$

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Use Ron's method to partition the numbers.

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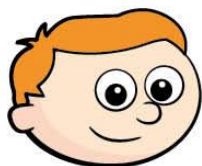
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Use Ron's method to partition the numbers.



3 Ron is using place value counters to partition 0.325



0.325 can
be partitioned into
3 tenths, 2 hundredths
and 5 thousandths.

$$0.325 = 0.3 + 0.02 + 0.005$$

Use Ron's method to partition the numbers.

a) $0.562 =$ $+$ $+$

b) $0.947 =$ $+$ $+$

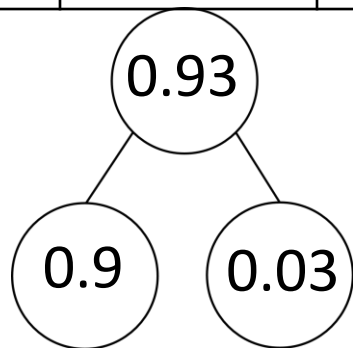
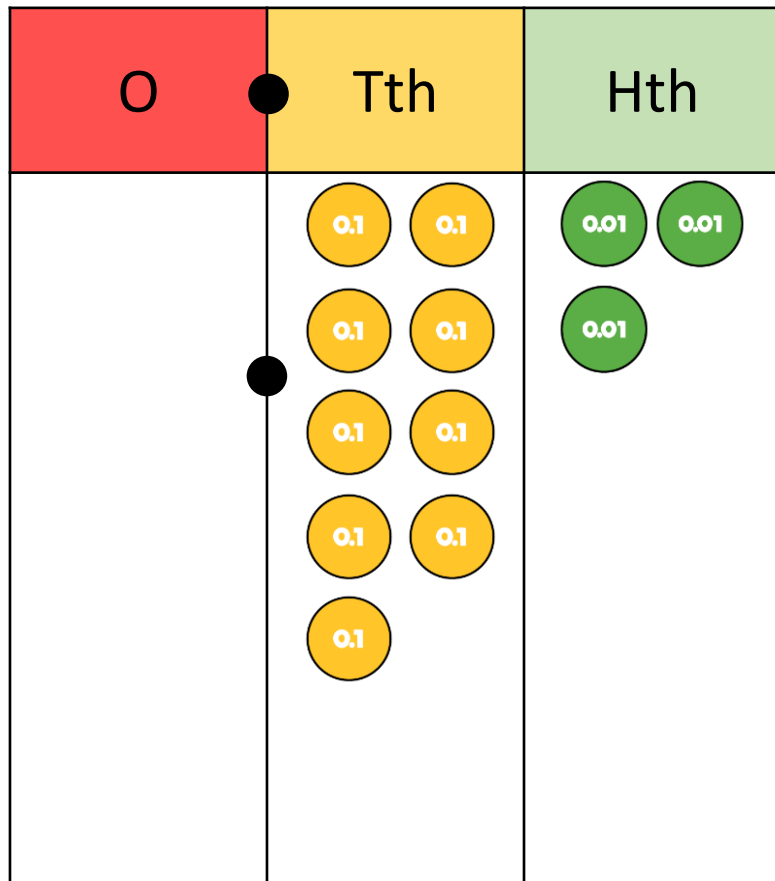
3

c) $\boxed{} + \boxed{} + \boxed{} = 0.185$

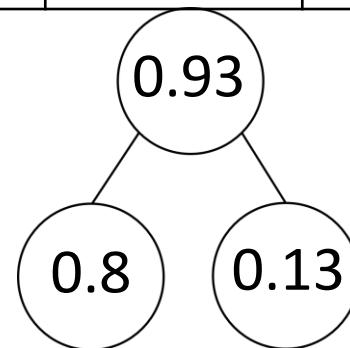
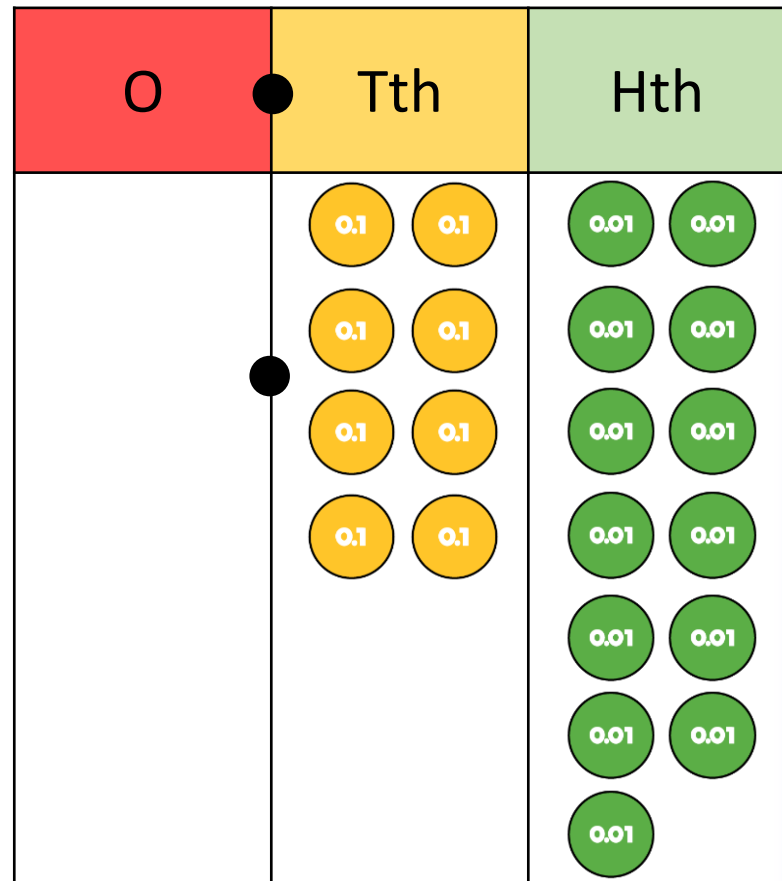
d) $0.604 = \boxed{} + \boxed{}$

e) $0.039 = \boxed{} + \boxed{}$

f) $0.28 = \boxed{} + \boxed{}$



How many other ways can you partition 0.93?



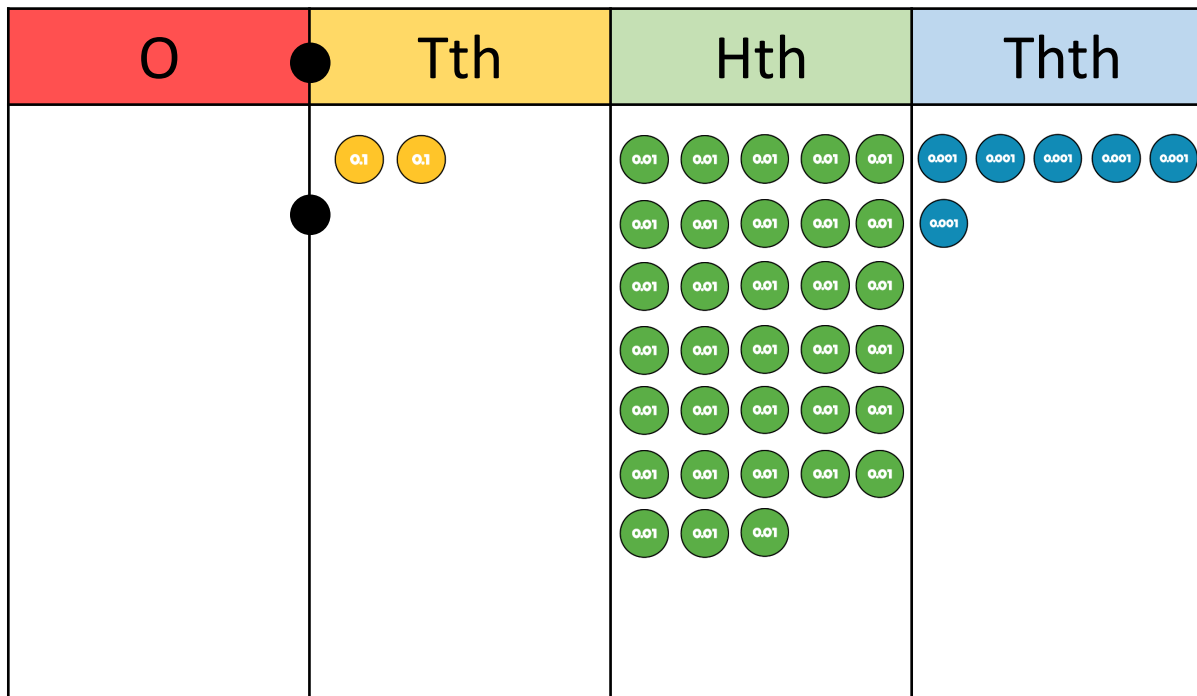
Ron has partitioned 0.536



Have a think

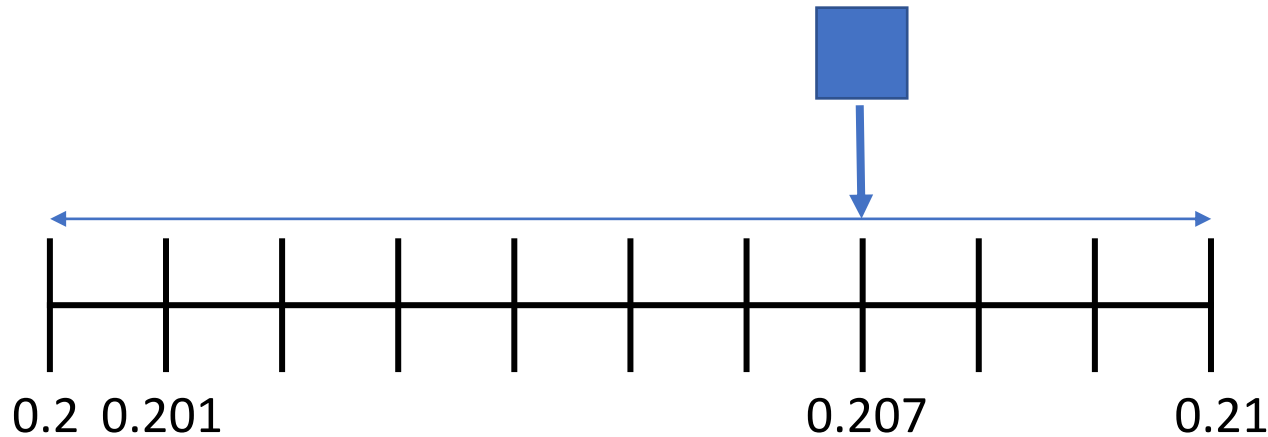
$$0.536 = 0.4 + 0.13 + 0.006$$

Use a place value chart to partition 0.536 a different way.



How many different ways can you think of?
 $0.536 = 0.2 + 0.33 + 0.006$

Partition the number represented by the square.



The difference in value between the start and end point is 0.01

$$0.01 \div 10 = 0.001$$

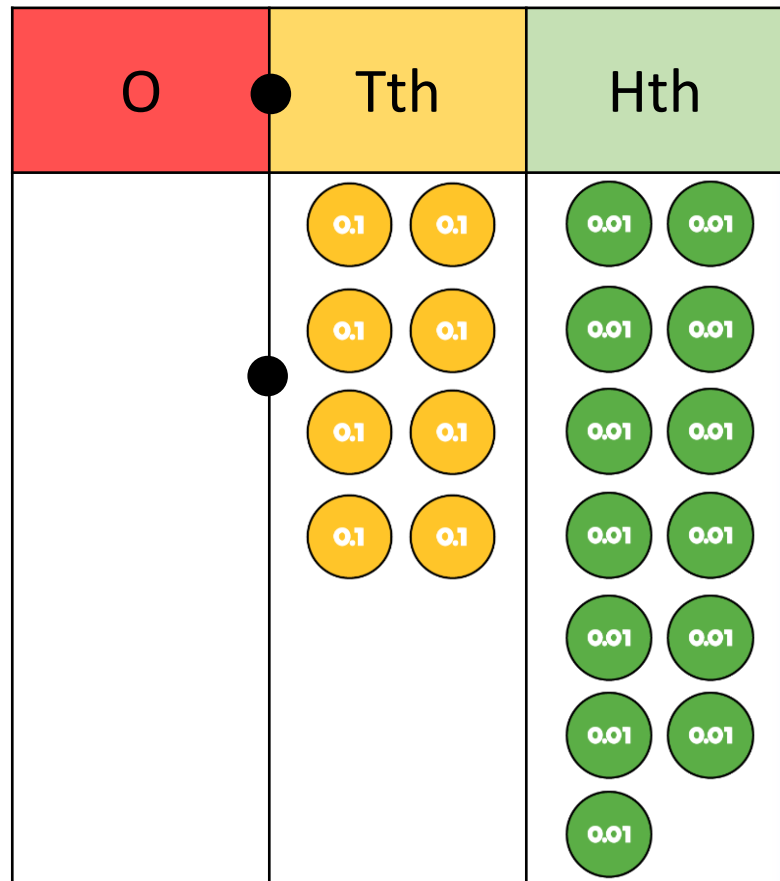
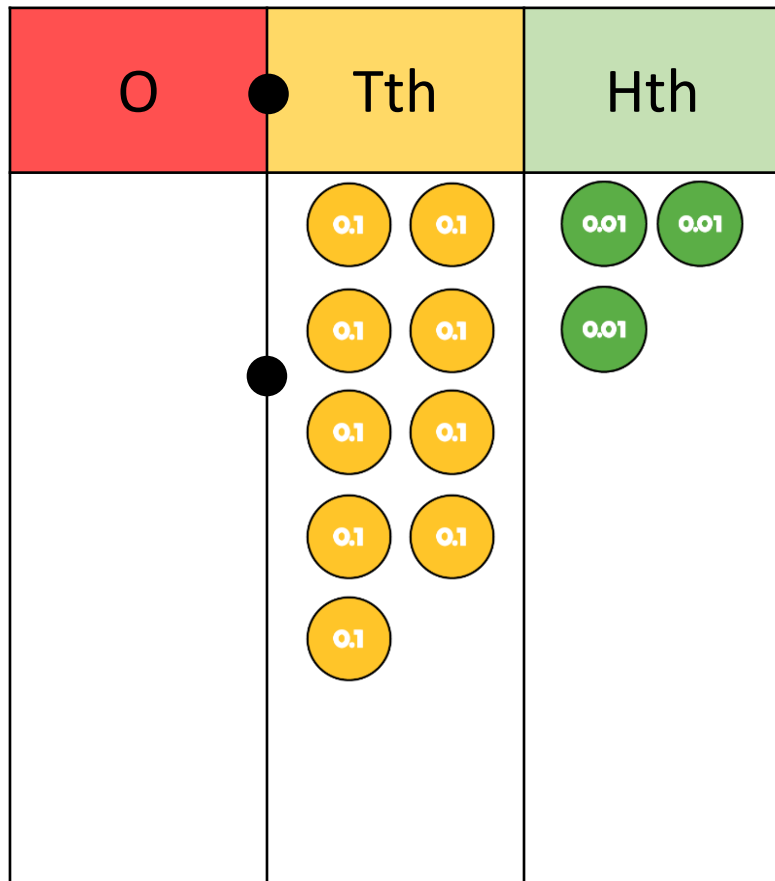
There are 10 intervals.

The number line is counting up in thousandths

$$0.207 = 0.2 + 0.007$$

Have a think





What's the same? What's different?

What do you notice?

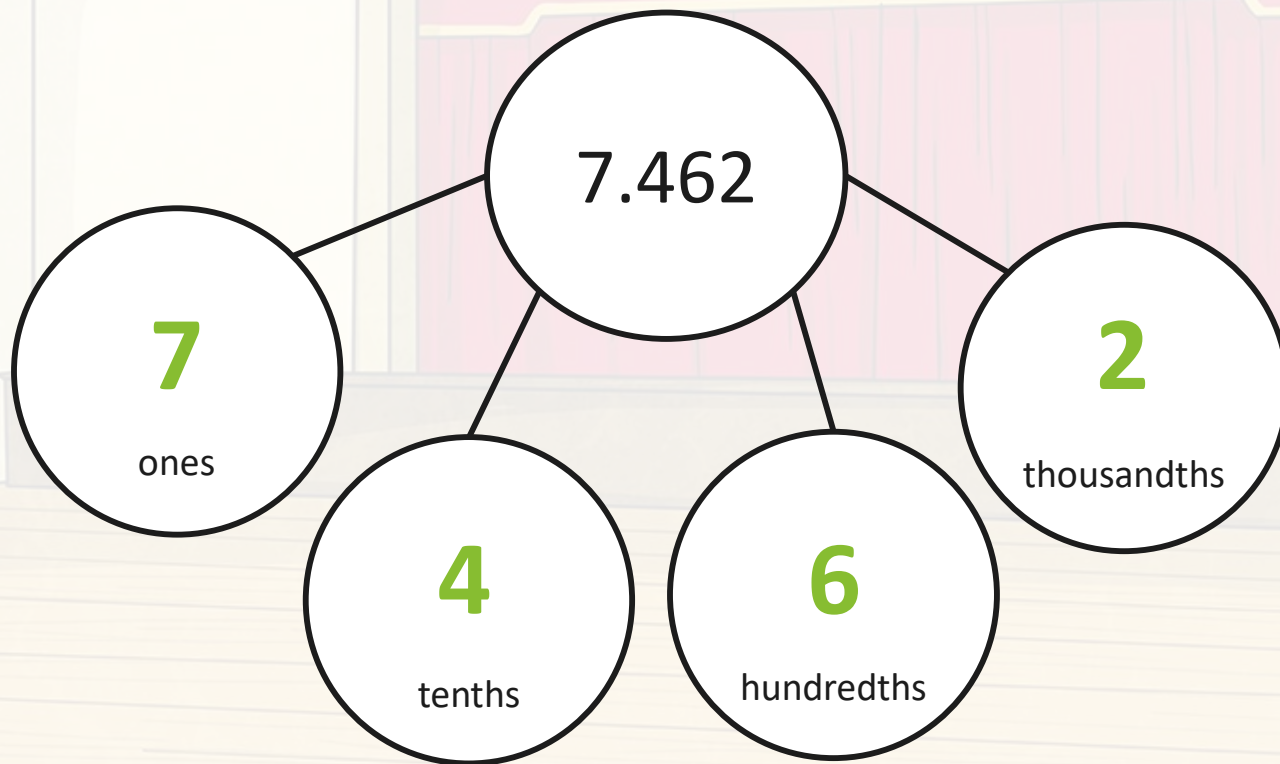


Have a think

Extension...



Complete the decimal part-whole model.



Can you find different ways to do this?

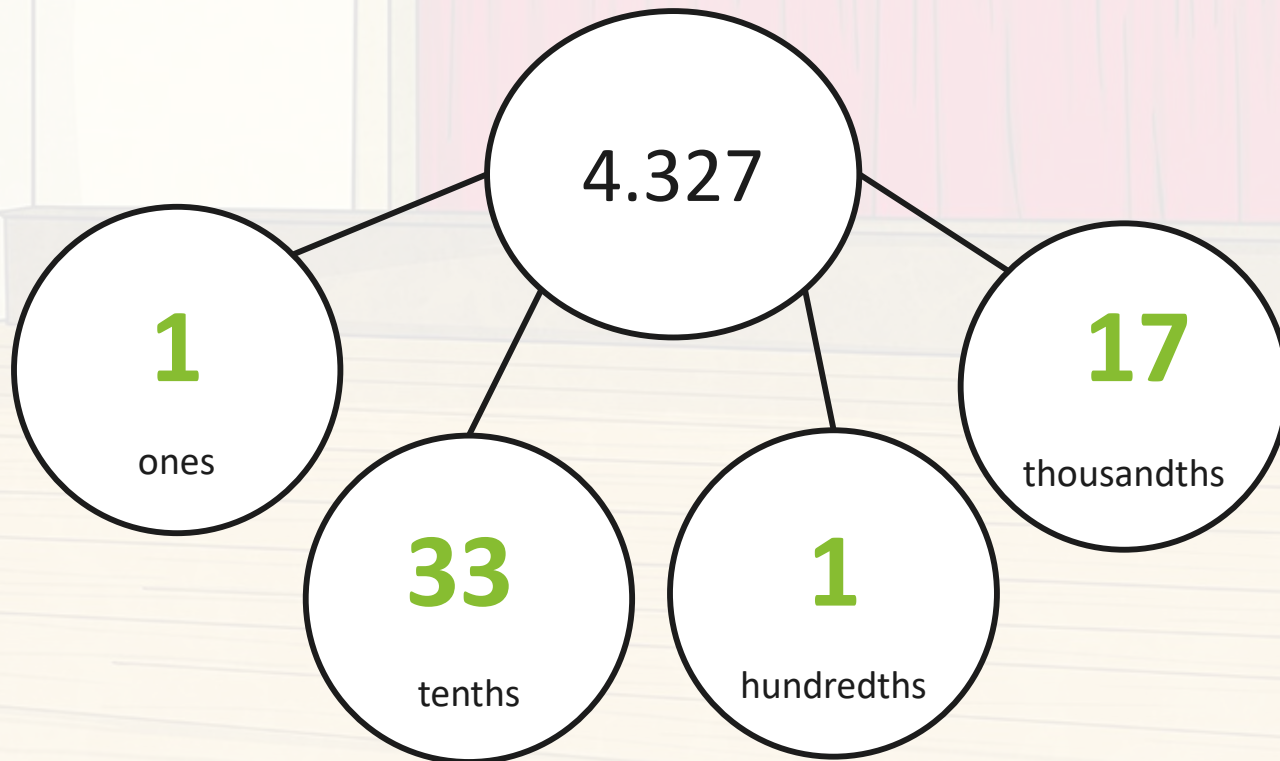
Extension...



Three Decimal Places

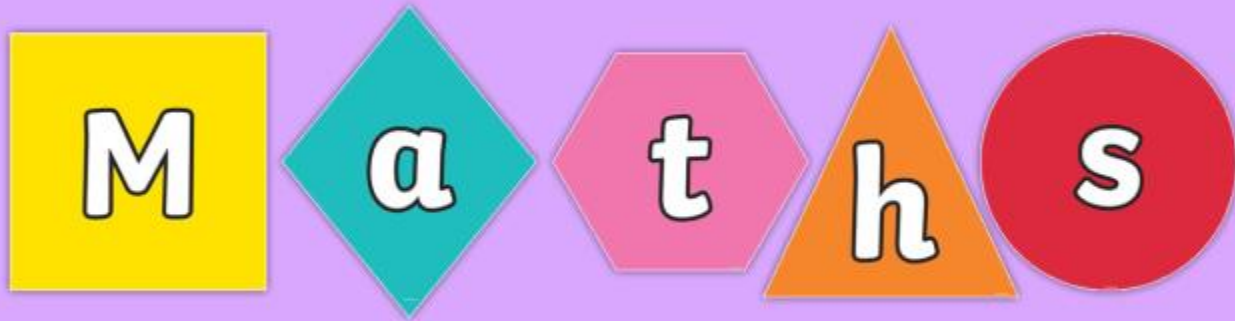
Find four different ways to partition this decimal number using exchanging. Try to use different numbers each time.

Share your answers with a partner. If you have an answer different to your partner, score one point. Who scored the most points?



Tues-Maths meeting

Multiplication- times tables



Bounce Your Tables!

With a partner, take it in turns to say a fact from either your 4, 6 or 12 times table. Bounce the facts back and forth to each other.



Which Is Missing?

Write out a times table but leave two multiples out. Challenge your partner to work out which numbers are missing.

6

?

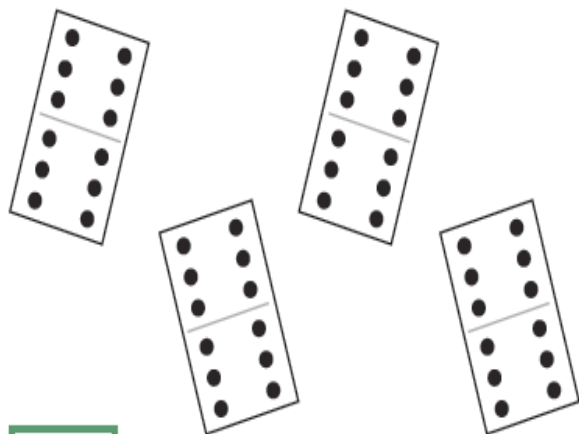
18

24

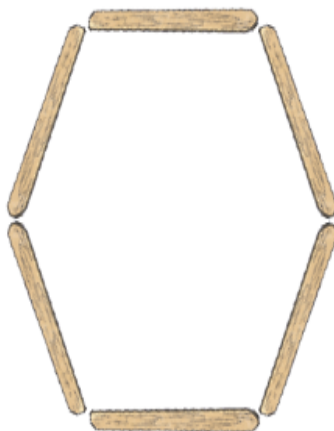
?

6 Times Table Maths Mastery Mat

How many spots are there altogether?



If you need 6 lolly sticks to make one hexagon, how many hexagons can you make with 24 lolly sticks?



hexagons

Create a fact family using 9, 54 and 6.

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

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

$$\square \div \square = \square$$

$$\square \div \square = \square$$

Complete the table.

60 minutes = 1 hour

Minutes	Hours
	2
600	
	7

Do you agree or disagree?

Explain your answer.

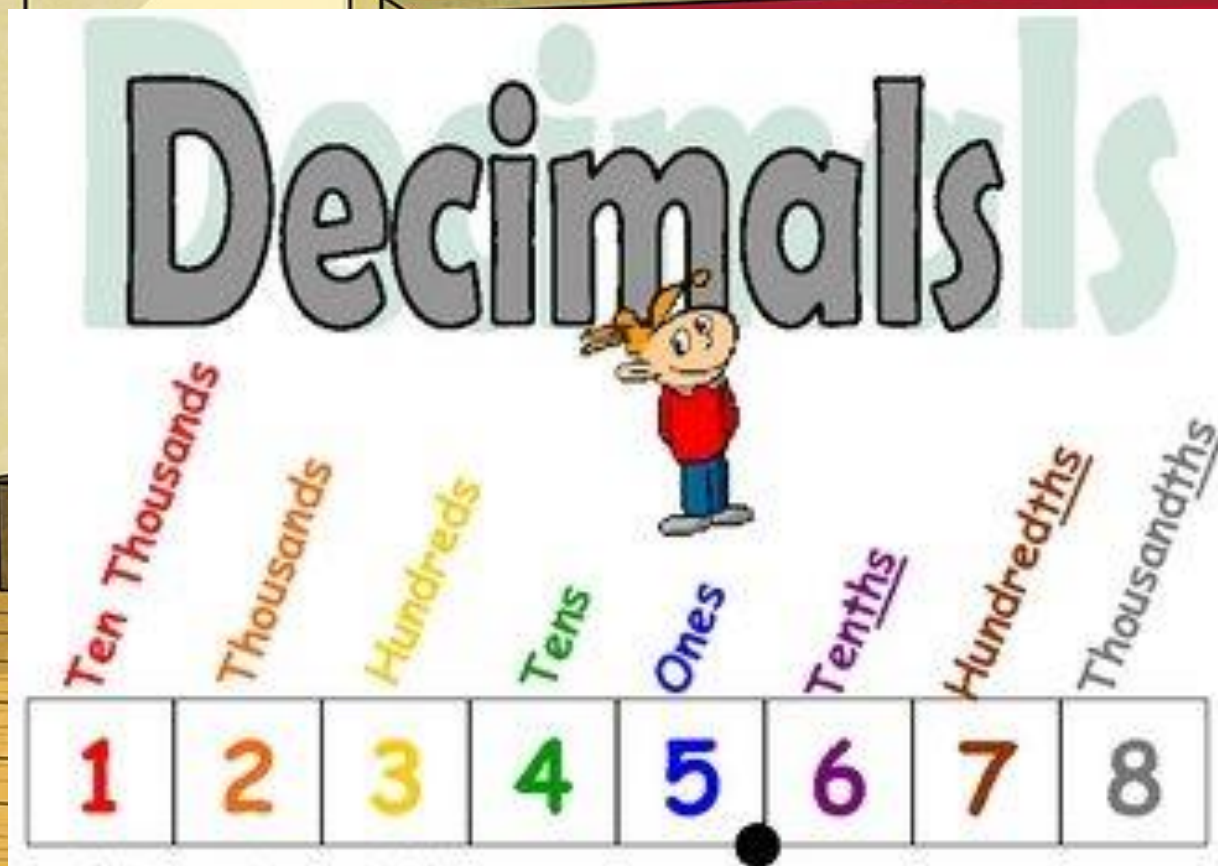
I can work out the answer to 5×6 if I double the answer for 5×3 .



Draw an array to match this calculation.

$$6 \times 6 = \square$$

Spring 1 -Week 2 Decimals



<https://www.mathsisfun.com/worksheets/decimals.php>

<https://www.bbc.co.uk/bitesize/topics/zsjgtfr/articles/zsbd7p3>

Weds: LO: To understand place value of decimal digits

Which number has a '5' in the tenths position?

53

5.3

0.53

0.35

b) Write three numbers that have 3 in the hundredths position.

Do now- whiteboards!

Weds-Crucial vocabulary

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Hundredths: The second decimal place to the right of the decimal point; 1 of 100 equal parts. Example: .8 7

Thousandths: The third decimal place to the right of the decimal point; 1 of 1000 equal parts. Example: .6 4 3

Decimal Point: A period separating the ones and tenths in a decimal number.
Example: **7.4**

Whole Numbers: The set of all counting numbers and 0. Example: **296**

mastery $\longleftrightarrow$ fluency $\longleftrightarrow$ application

Term Spring 1 Week beginning 10/1/23

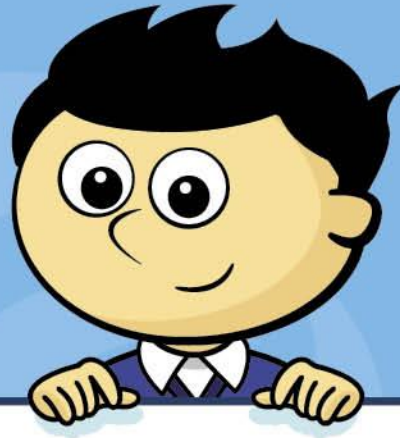
Block Decimals

Key vocabulary tenths hundredths
decimal point thousandths whole number
rounding place value digit column

	B	W	S
Place value within 1			
Place value - integers and decimals			
Round decimals			
Add and subtract decimals			
Multiply by 10, 100 and 1,000			
Divide by 10, 100 and 1,000			
Multiply decimals by integers			
Divide decimals by integers			

Stem sentences

- There are ones, tenths, hundredths and thousandths
- The number is
- There are in
- is 10/100/1,000 times the size of
- is one-tenth/hundredth/thousandth the size of
- The previous/next multiple of is
- is closer to than
- So rounded to the nearest is



Get ready

Here is your starter.

1) Tens are 10 times the size of _____

Ones are 10 times the size of _____

2) Tenths are one-tenth the size of _____

Hundredths are one-tenth the size of _____

3) 1 is _____ the size of 100

4) $0.356 = 0.3 + \text{_____} + 0.006$

Weds

1) Tens are 10 times the size of _____

Ones are 10 times the size of _____

2) Tenths are one-tenth the size of _____

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1) Tens are 10 times the size of _____

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2) Tenths are one-tenth the size of _____

Hundredths are one-tenth the size of _____

3) 1 is _____ the size of 100

4) $0.356 = 0.3 + \text{_____} + 0.006$

1) Tens are 10 times the size of ones

Ones are 10 times the size of tenths

2) Tenths are one-tenth the size of ones

Hundredths are one-tenth the size of tenths

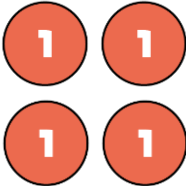
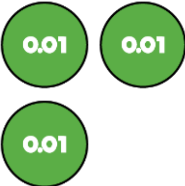
3) 1 is one-hundredth the size of 100

4) $0.356 = 0.3 + \underline{0.05} + 0.006$



Let's learn

Get ready for today's
new learning.

T	O	Tth	Hth	Thth
				

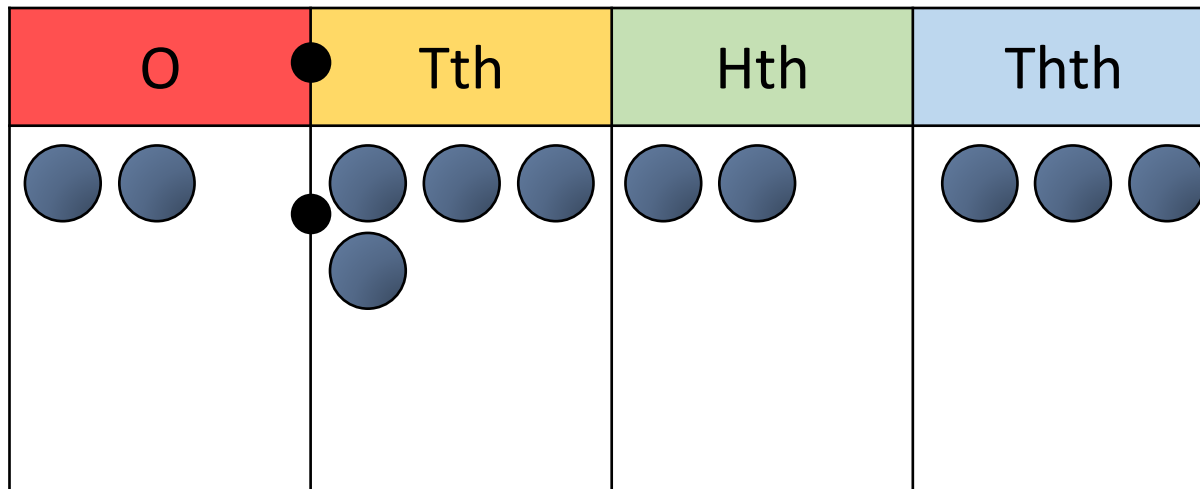
There are 2 tens, 4 ones, 4 tenths, 3 hundredths and 1 thousandth.

The number is 24.431

Have a think



Use a place value chart and plain counters to represent 2.423



There are ones, tenths, hundredths
and thousandths.

Have a think 

To do



Write the value of the digit 4 in each number.

1.04

43.027

0.274

Have a think



T	O	Tth	Hth	Thth
Write the value of the digit 4 in each number.				

1.04
4 hundredths

43.027
4 tens

0.274
4 thousandths



Match each number to the correct child.

1.04

43.027

0.274



Alex

My number has zero tenths.

My number has seven hundredths.



Whitney



Dexter

My number has seven thousandths.

I can prove this because...

Match each number to the correct child.

1.04

43.027

0.274



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T	O	tth	hth	thth
1.04	43.027		0.274	



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My number has seven hundredths.



Dexter

My number has seven thousandths.

Match each number to the correct child.

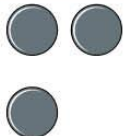
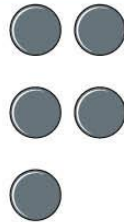


Your turn



Place value – integers and decimals

1 Complete the sentences.

O	Tth	Hth	Thth
			

There are ones, tenths, hundredths
and thousandths.

The number is



2

Use place value counters to make the numbers.

Draw your answers and complete the sentences.

a) 1.343

T	O	Tth	Hth	Thth

There are tens, one, tenths, hundredths
and thousandths.

The number is

2

b) 16.052

T	O	Tth	Hth	Thth

There is ten, ones, tenths, hundredths
and thousandths.

The number is

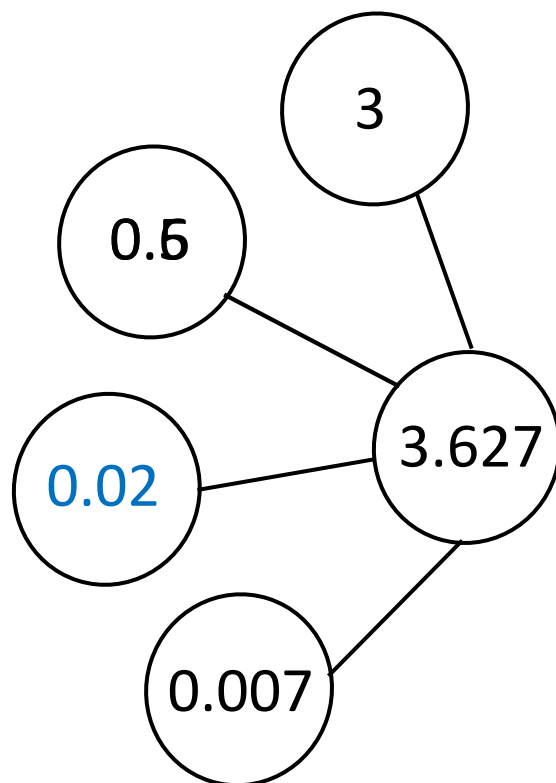
2 c) 70.01

T	O	Tth	Hth	Thth

There are tens, ones, tenths, hundredth
and thousandths.

The number is

Complete the part-whole model.



$$3 + 0.6 + \underline{0.02} + 0.007$$

Guided

Have a think





3 Write the value of the 3 in each number.

a) 3.65 _____

d) 72.439 _____

b) 0.093 _____

c) 18.31 _____



Hexagon and Octagons- write the no
and then the answer

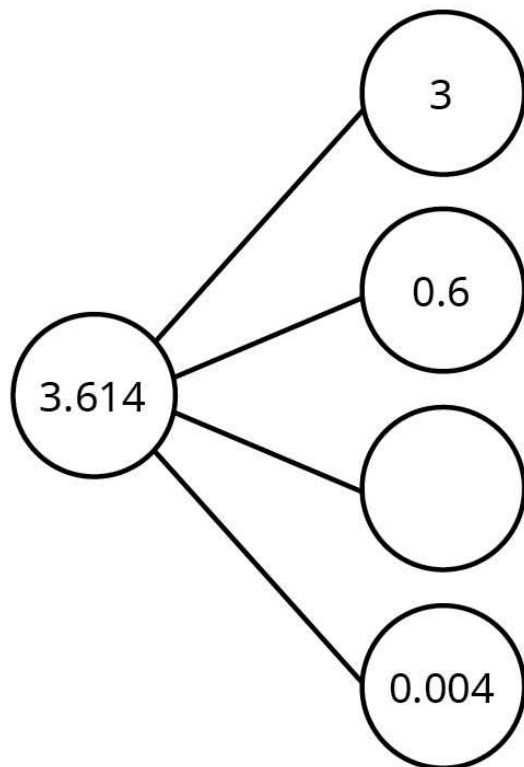
Extension – Squares and Triangles



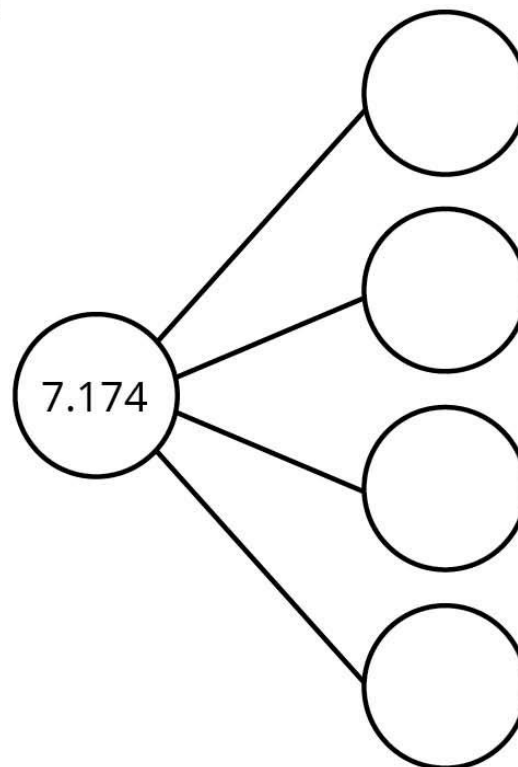
4

Complete the part-whole models.

a)



b)



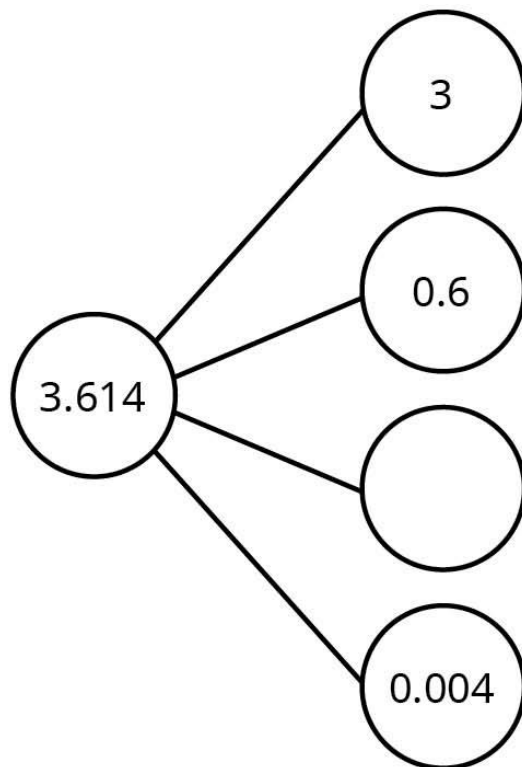
Hexagon and Octagons-
Complete Extension – Squares and Triangles



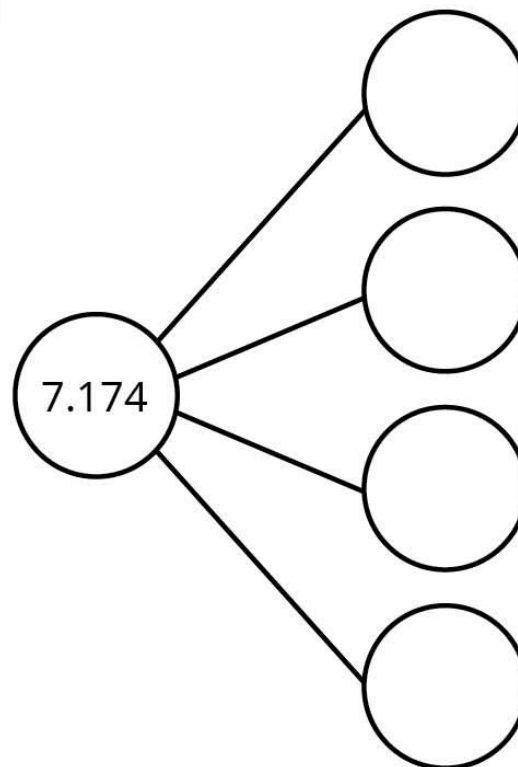
4

Complete the part-whole models.

a)



b)



Hexagon and Octagons-
Complete Extension – Squares and Triangles



5

Complete the number sentences.

a) $17.134 = 10 + 7 + 0.1 + \boxed{} + 0.004$

b) $94.077 = 90 + 4 + 0.07 + \boxed{}$

c) $\boxed{} = 30 + 4 + 0.07 + 0.009$

Hexagon and Octagons-

Hexagon and Octagons-

0.454

0.44

0.445

0.345



The children are each thinking of a different decimal number.



My number has four hundredths.

Amir



My number is the smallest.

Alex



The sum of the digits in my number is 13

Dora



The tenths and hundredths digits in my number are different.

Dexter

Match each number to the correct child.

0.454

0.44

0.445

0.345



The children are each thinking of a different decimal number.



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My number has four hundredths.



Dora

The sum of the digits in my number is 13



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My number is the smallest.



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Match each number to the correct child.

0.454

0.44

0.445

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0.454

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0.445

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Match each number to the correct child.

0.454

0.44

0.445

0.345



The children are each thinking of a different decimal number.



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Dora

The sum of the digits in my number is 13



Alex

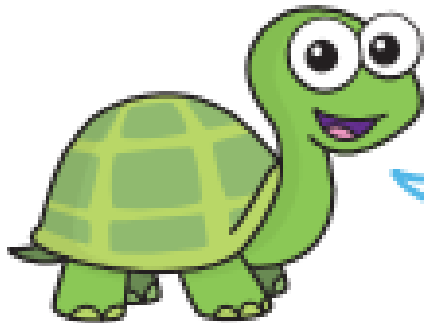
My number is the smallest.



Dexter

The tenths and hundredths digits in my number are different.

Match each number to the correct child.



The more decimal places a number has, the smaller the number is.

Do you agree with Tiny?
Explain your answer.



Hexagon and Octagons-



The more decimal places a number has, the smaller the number is.

Do you agree with Tiny?

Explain your answer.



The more decimal places a number has, the smaller the number is.

Do you agree with Tiny?

Explain your answer.



The more decimal places a number has, the smaller the number is.

Do you agree with Tiny?

Explain your answer.



The more decimal places a number has, the smaller the number is.

Do you agree with Tiny?

Explain your answer.



The more decimal places a number has, the smaller the number is.

Do you agree with Tiny?

Explain your answer.



The more decimal places a number has, the smaller the number is.

Do you agree with Tiny?

Explain your answer.



The more decimal places a number has, the smaller the number is.

Do you agree with Tiny?

Explain your answer.



The more decimal places a number has, the smaller the number is.

Do you agree with Tiny?

Explain your answer.



Reasoning and problem solving



The more decimal places a number has, the smaller the number is.

Do you agree with Tiny?
Explain your answer.



No

O	Tth	Hth	Thth

Use four counters to make a number less than 1

What is the value of each digit in your number?

How many ways can you partition it?

multiple possible answers

0.454

0.44

0.445

0.345



The children are each thinking of a different decimal number.



Amir

My number has four hundredths.



Dora

The sum of the digits in my number is 13



Alex

My number is the smallest.

The tenths and hundredths digits in my number are different.



Dexter

Match each number to the correct child.

Amir: 0.44

Alex: 0.345

Dora: 0.445

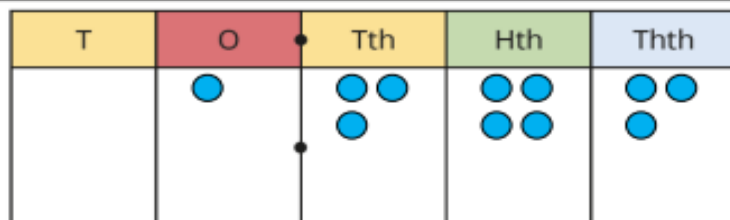
Dexter: 0.454

1

There are 3 ones.
 There are 2 tenths.
 There are 4 hundredths.
 There are 5 thousandths.
 The number is 3.245

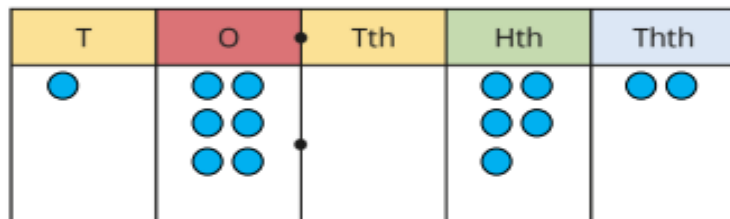
2

a)



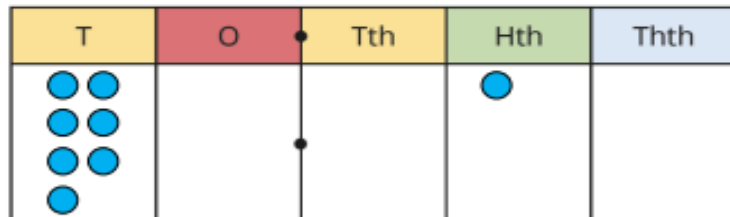
There are 0 tens, 1 one, 3 tenths, 4 hundredths and 3 thousandths.
 The number is 1.343

b)



There is 1 ten, 6 ones, 0 tenths, 5 hundredths and 2 thousandths.
 The number is 16.052

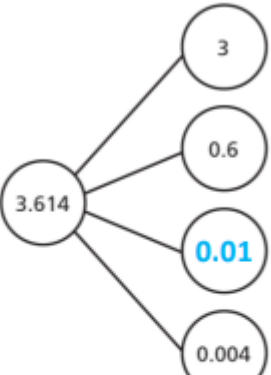
c)



There are 7 tens, 0 ones, 0 tenths, 1 hundredth and 0 thousandths.
 The number is 70.01

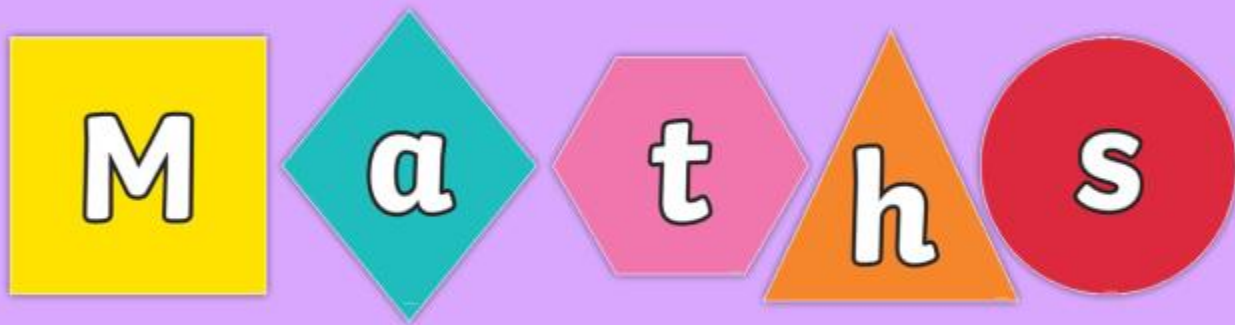
3

- a) 3 ones
- b) 3 thousandths
- c) 3 tenths
- d) 3 hundredths
- e) 3 tens
- f) 3 hundredths

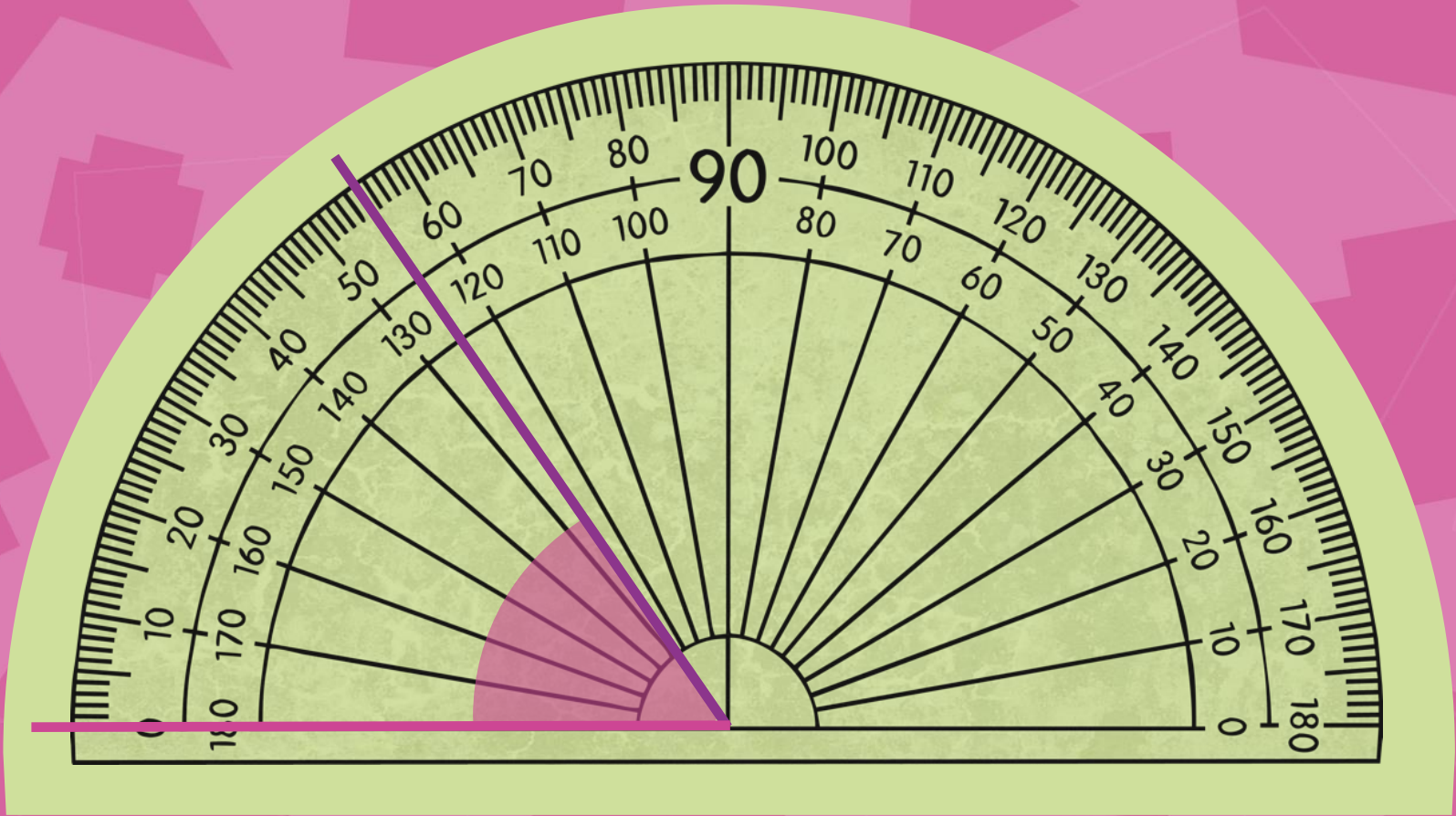
4	a)  b) 
5	a) $17.134 = 10 + 7 + 0.1 + 0.03 + 0.004$ b) $94.077 = 90 + 4 + 0.07 + 0.007$ c) $34.079 = 30 + 4 + 0.07 + 0.009$
6	$1.456 = 1 + 0.4 + 0.05 + 0.006$ $1.456 = 1 + 0.3 + 0.15 + 0.006$ $1.456 = 1 + 0.2 + 0.25 + 0.006$ $1.456 = 1 + 0.45 + 0.006$
7	Annie Annie has 12 counters in the hundredths columns, which is equivalent to 1 tenth and 2 hundredths.

Weds-Maths meeting

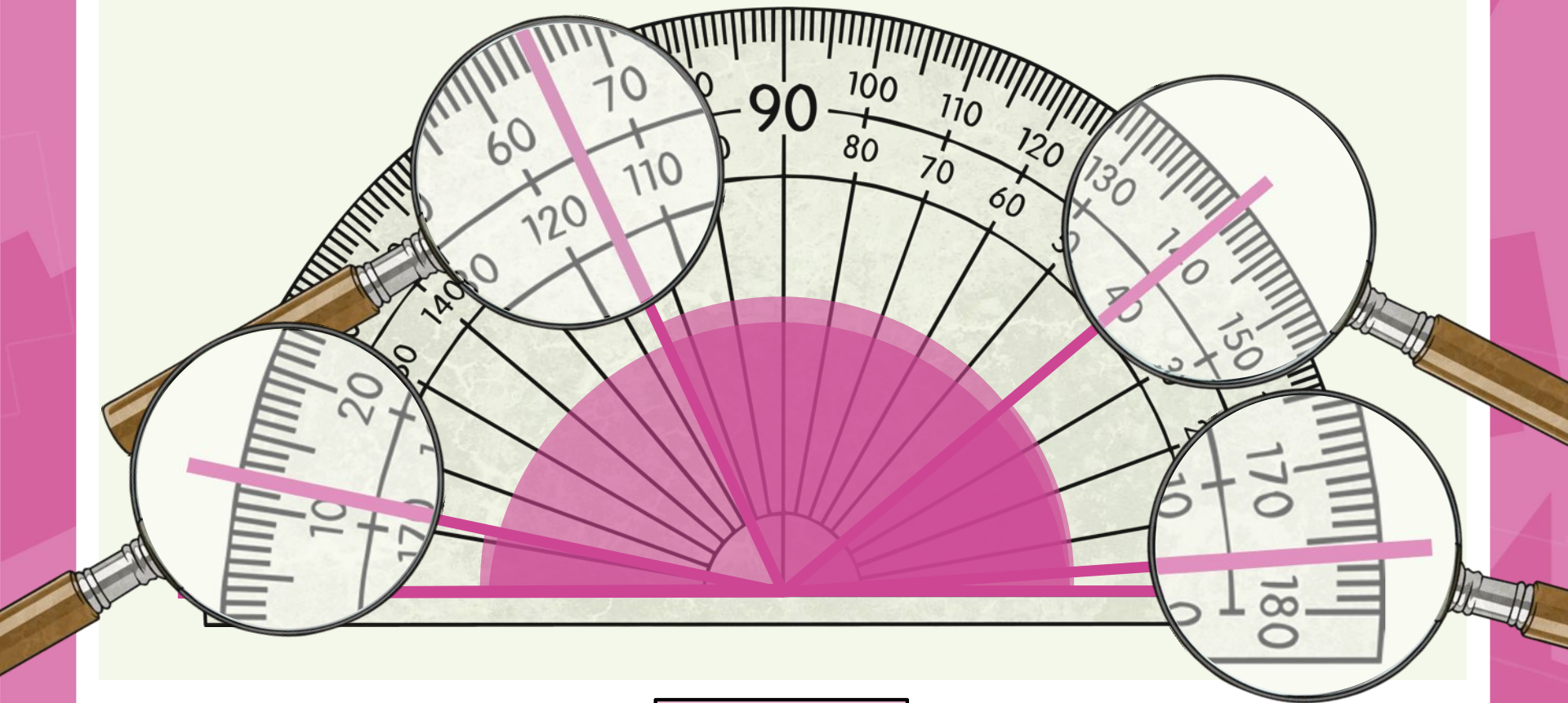
Drawing angles- pre- teach



Drawing Angles up to 180°



What is the measurement of the angle? Explain how you know.



~~140~~^o

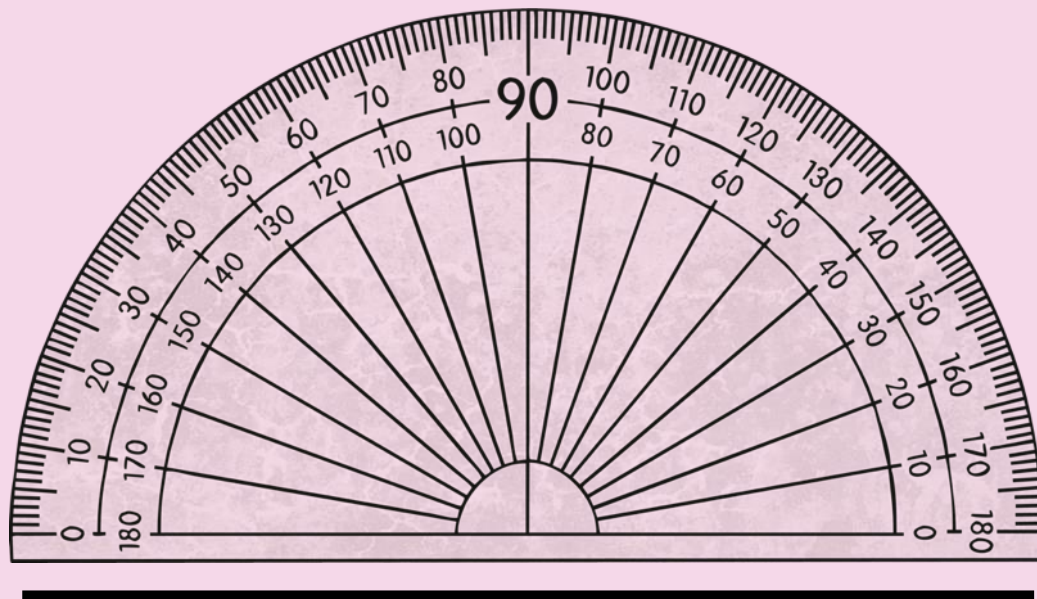
Drawing Angles with a Protractor

In this lesson, we are going to draw angles accurately using a protractor.

First, we need to draw a straight line.

We could use a ruler or the straight side of a protractor to do this.

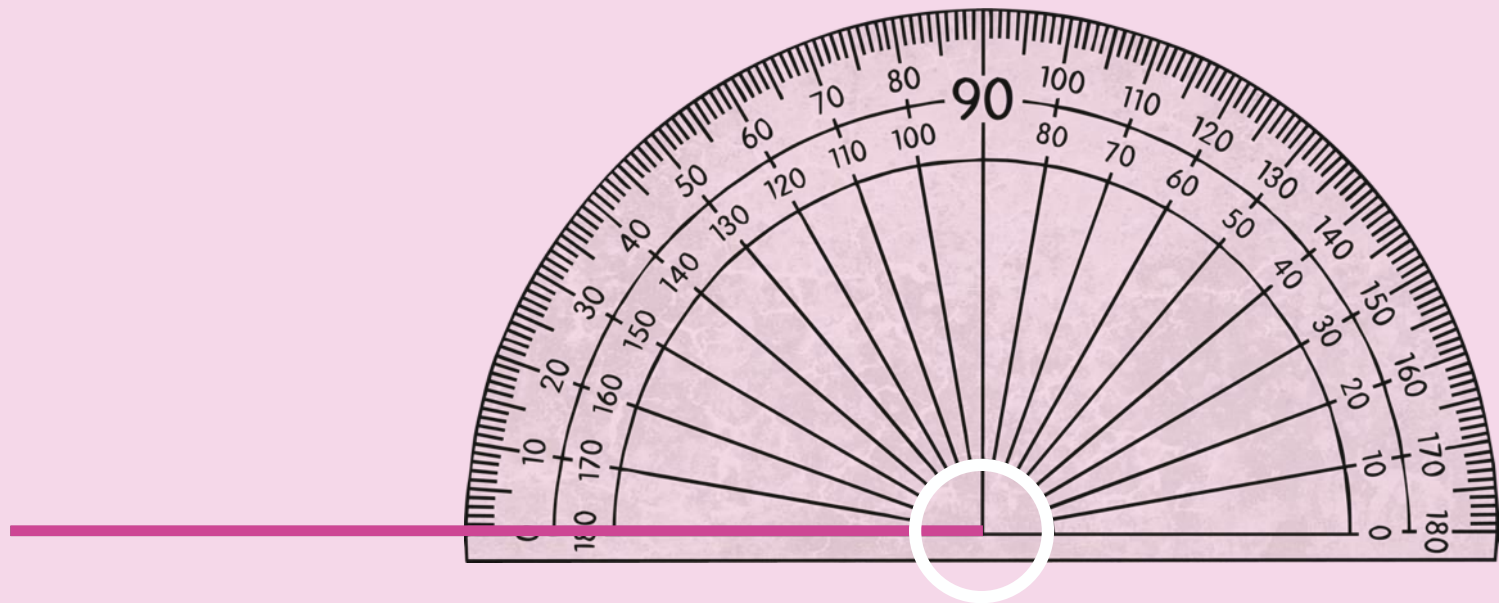
Let's draw 60° .



Drawing Angles with a Protractor

Next, we line the centre of the protractor up with the end of the line on the right hand side. This will eventually form the vertex of the angle.

The baseline of the protractor needs to be exactly on top of the horizontal line.

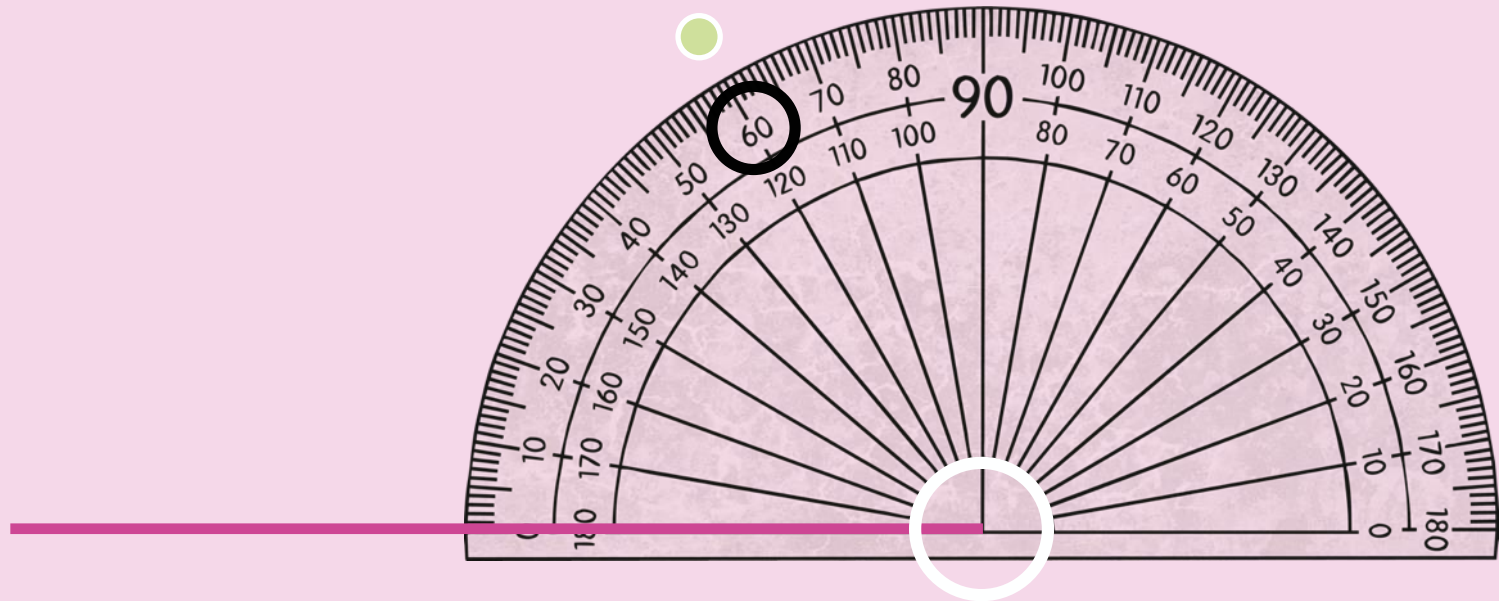


Drawing Angles with a Protractor

Now, we find 60° on our protractor.

A good trick is to always use the top scale on the protractor to find the number!

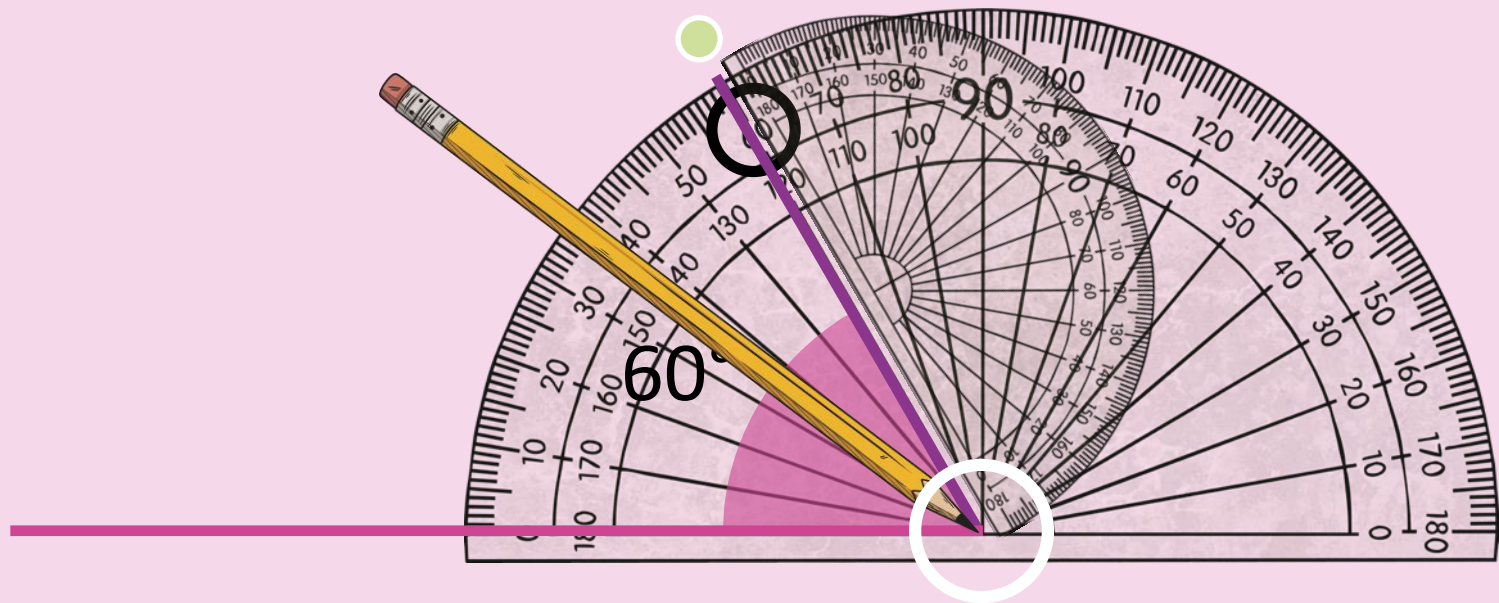
If we found 60° on the bottom scale, our angle would be incorrect!



Drawing Angles with a Protractor

Next, we draw a straight line from the horizontal line to the point marked at 60° to form the vertex.

Now we draw the arc of the angle and label it.
Remember to include the $^\circ$ sign, as this is the unit of measure we use for angles.
This angle accurately measures 60° .

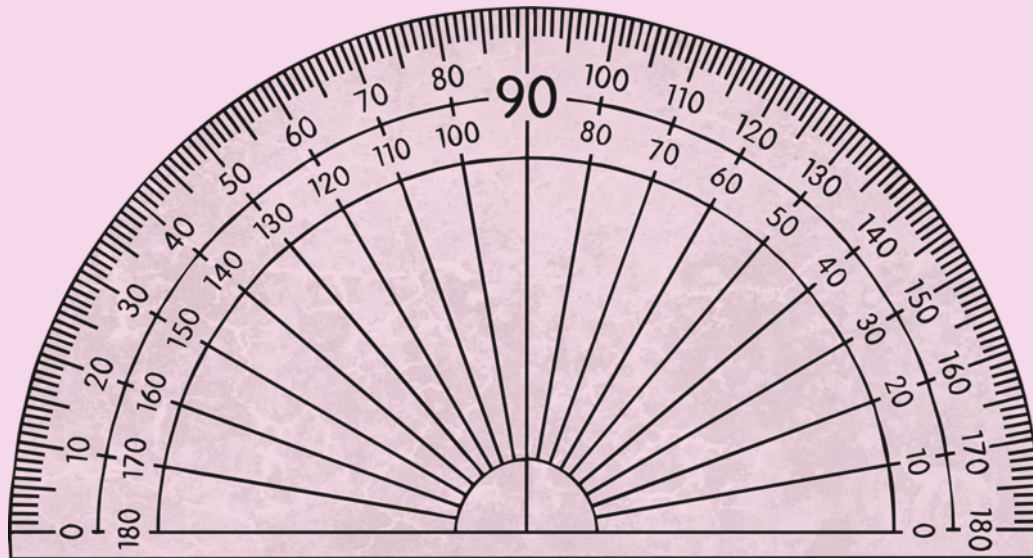


Drawing Angles with a Protractor



Let's try one together!
What is the first step for drawing 25° ?
what would be the first step?

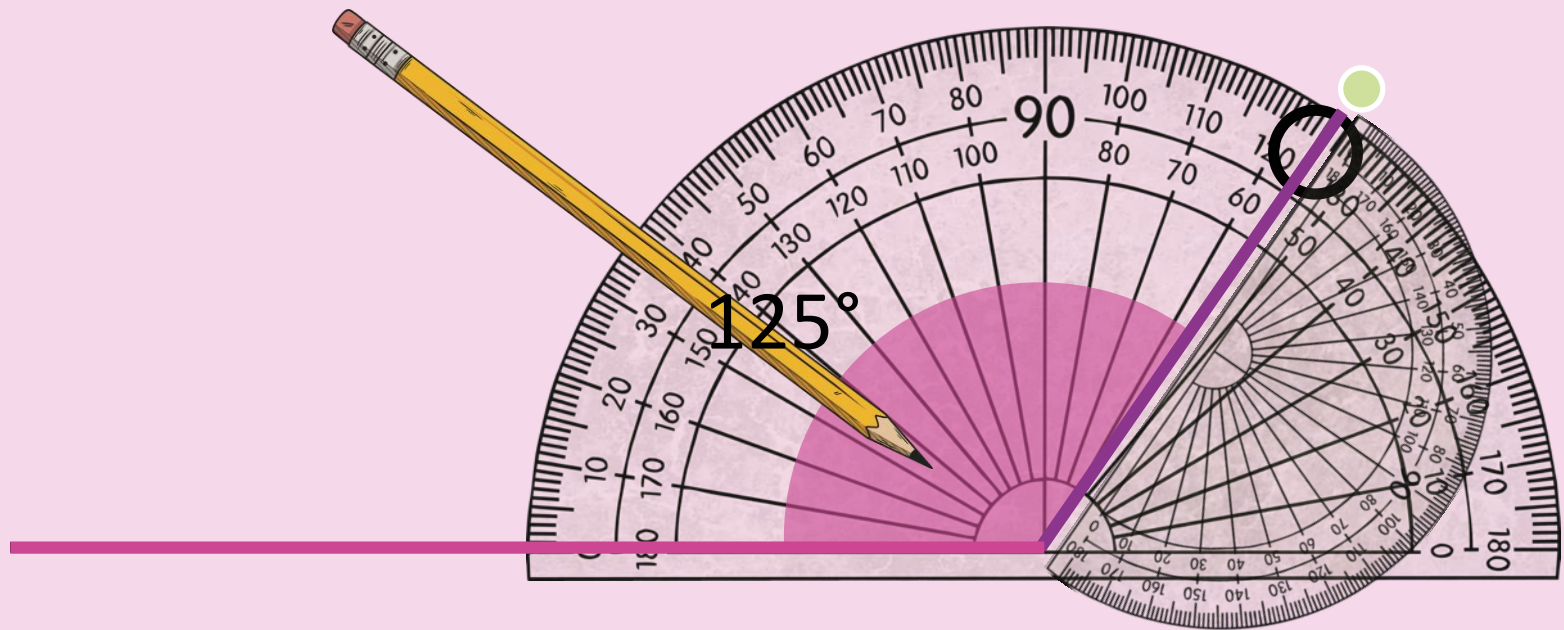
Next, use a ruler to draw a straight line. The length of the line is 12.5 cm.



Drawing Angles with a Protractor

We need to find a straight line from the horizontal.
We know that this will be halfway between 120° and 130° .

Finally, we can label our angle.

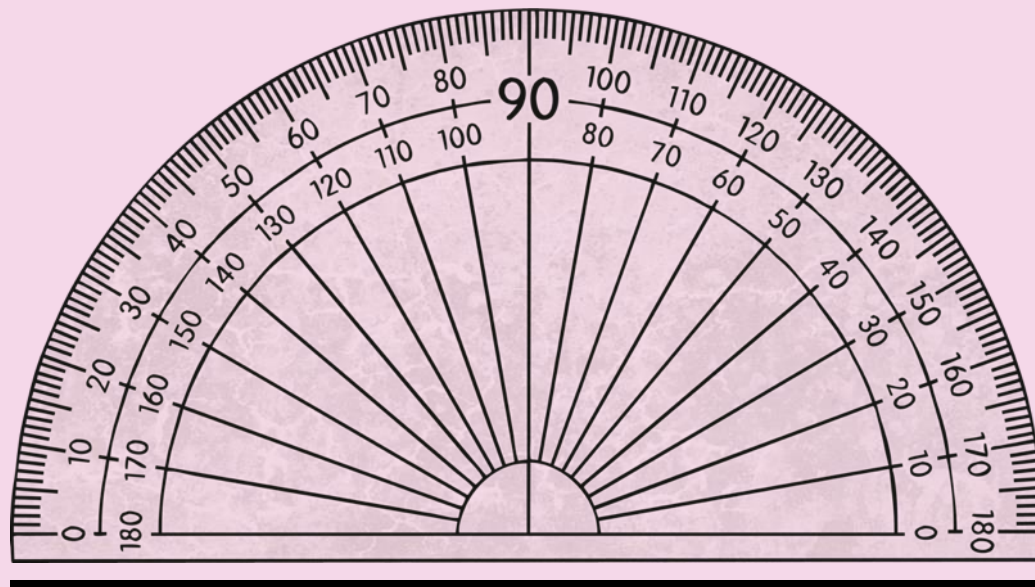


Drawing Angles with a Protractor



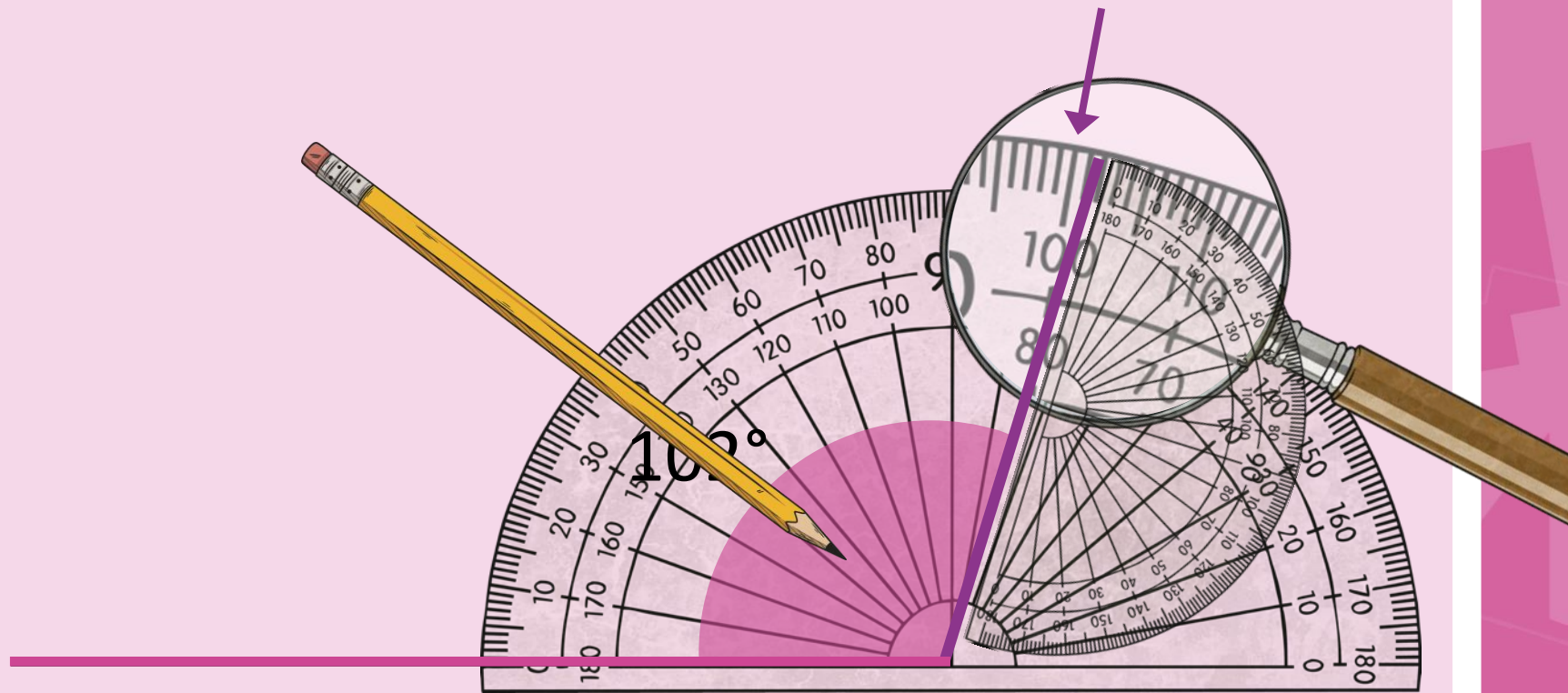
Next, let's line up our protractor so the centre is at the end of the line.

102° is more challenging as we need to use the top scale and find 102° reading the scale. Let's head to the top scale just like before.



Drawing Angles with a Protractor

Now, we can finish drawing our angle.
We can find 100° and then count on two small intervals.



Partner Challenge!

Find a partner and name yourself either **partner A** or **partner B**.

Partner A Choose one of the angles and draw it accurately.

Partner B Carefully measure the angle.

Does your partner need to improve their drawing? How can you help them?

55°

175°

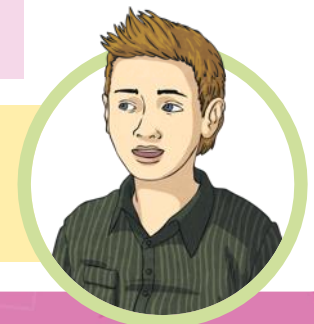
105°

162°

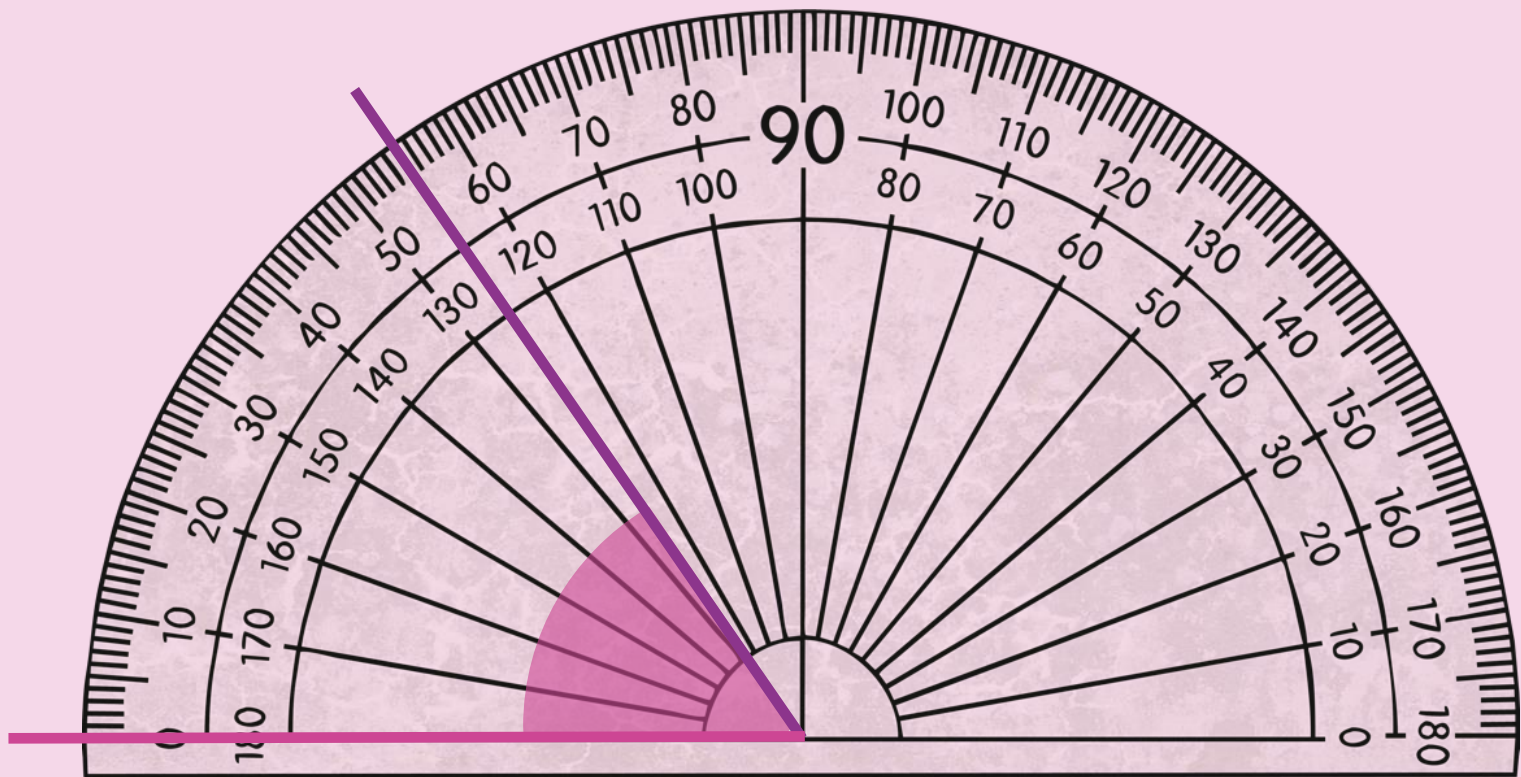
18°

71°

Make sure you are using the top scale on the protractor before you draw each angle!

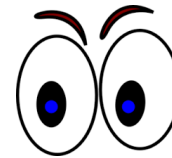


55°



Back

<https://corbettmaths.com/2013/12/19/angles-straight-line-video-35/>



ANGLE

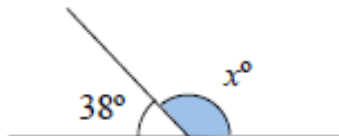
ANGLES WHICH FORM A STRAIGHT LINE

NO PROTRACTOR

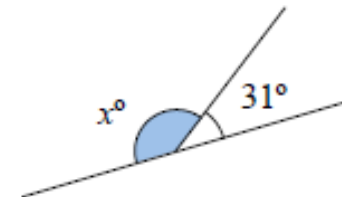
A1 Find the value x



A2 Find the value x



A3 Find the value x



Find the missing angles



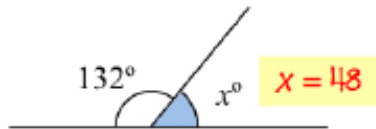
Answers!

ANGLE

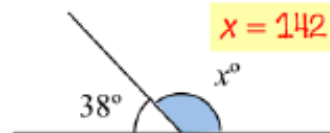
ANGLES WHICH FORM A STRAIGHT LINE

NO PROTRACTOR

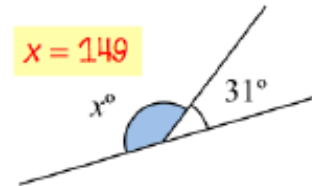
A1 Find the value x



A2 Find the value x



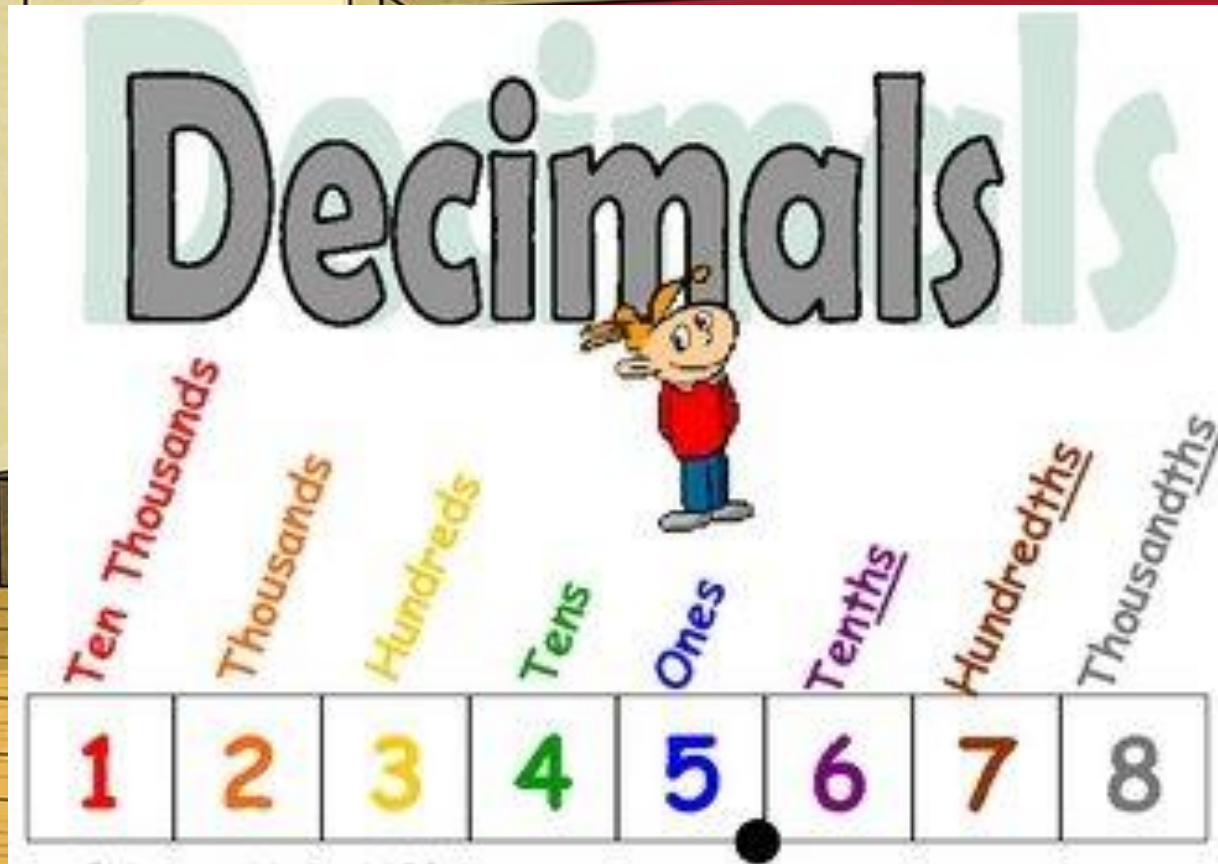
A3 Find the value x



<https://www.bbc.co.uk/bitesize/topics/zb6tyrd/articles/z29kg7h>



Spring 1 -Week 2 Decimals



<https://www.mathsisfun.com/worksheets/decimals.php>

<https://www.bbc.co.uk/bitesize/topics/zsjgtfr/articles/zsbd7p3>

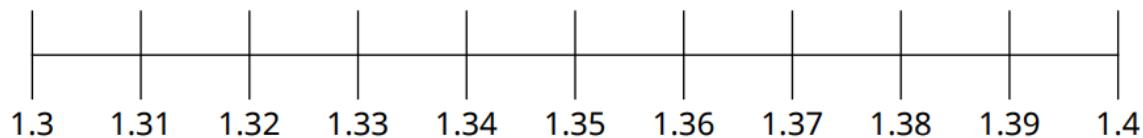
Thurs: LO: To round decimals

Whiteboards....

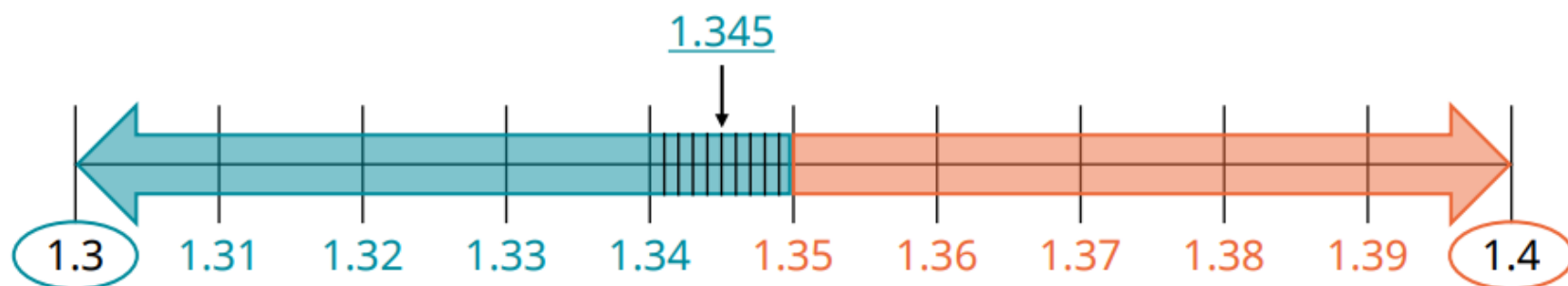
True or False ?

Round decimals

1.345 rounds to 1.4 to the nearest tenth.



False



1.35 is the smallest number that rounds to 1.4

Weds-Crucial vocabulary

tenths — the first number to the right of the decimal point

Hundredths: The second decimal place to the right of the decimal point; 1 of 100 equal parts. Example: .8 7

Thousandths: The third decimal place to the right of the decimal point; 1 of 1000 equal parts. Example: .6 4 3

Decimal Point: A period separating the ones and tenths in a decimal number.
Example: **7.4**

Whole Numbers: The set of all counting numbers and 0. Example: **296**

mastery $\longleftrightarrow$ fluency $\longleftrightarrow$ application

Term Spring 1 Week beginning 10/1/23

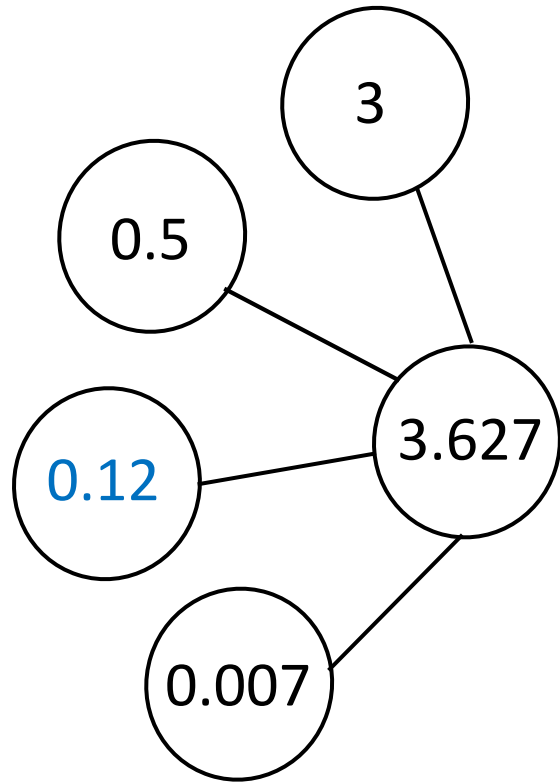
Block Decimals

Key vocabulary tenths hundredths
decimal point thousandths whole number
rounding place value digit column

	B	W	S
Place value within 1			
Place value - integers and decimals			
Round decimals			
Add and subtract decimals			
Multiply by 10, 100 and 1,000			
Divide by 10, 100 and 1,000			
Multiply decimals by integers			
Divide decimals by integers			

Stem sentences

- There are ones, tenths, hundredths and thousandths
- The number is
- There are in
- is 10/100/1,000 times the size of
- is one-tenth/hundredth/thousandth the size of
- The previous/next multiple of is
- is closer to than
- So rounded to the nearest is

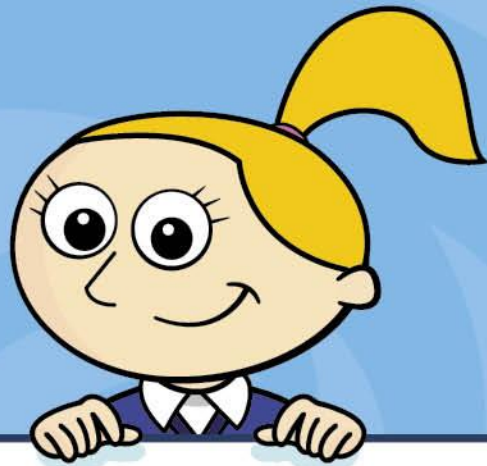


$$3 + 0.6 + \underline{0.02} + 0.007 = 3.627$$

$$3 + 0.5 + \underline{0.12} + 0.007 = 3.627$$

$$3 + 0.4 + \underline{0.22} + 0.007 = 3.627$$

Recap...

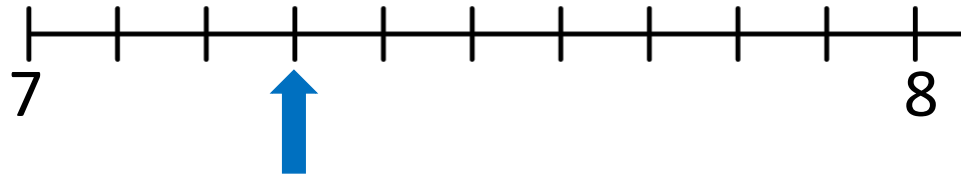


Get ready

Here is your starter.

1) Round 3,056 to the nearest 10

2 a) What number is the arrow pointing to?

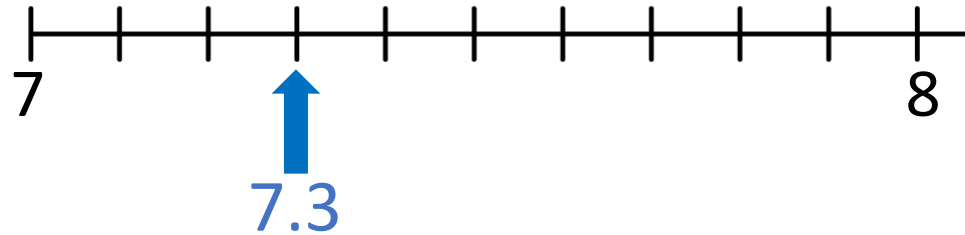


b) What is the nearest integer to 7.3?

3) How many decimal places are there in the number 5.213?

1) Round 3,056 to the nearest 10 **3,060**

2 a) What number is the arrow pointing to?



b) What is the nearest integer to 7.3?

7

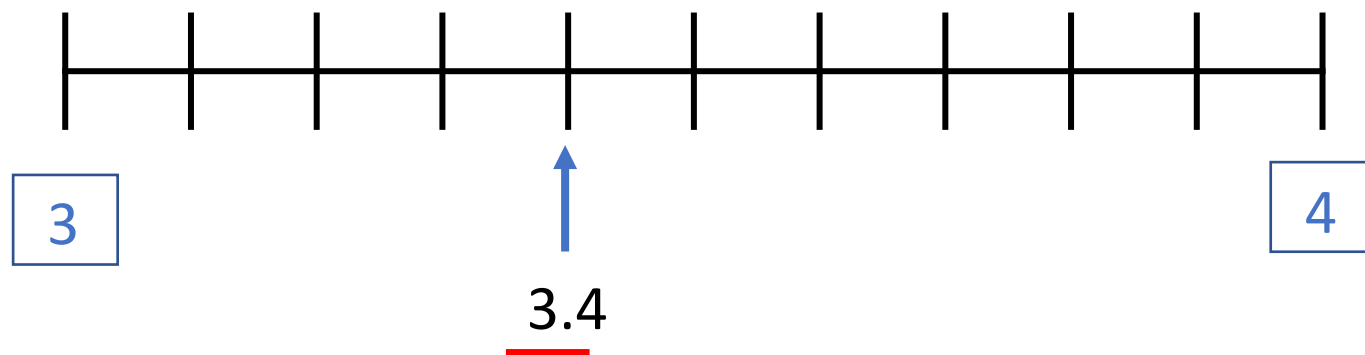
3) How many decimal places are there in the number 5.213? **3**



Let's learn

Get ready for today's
new learning.

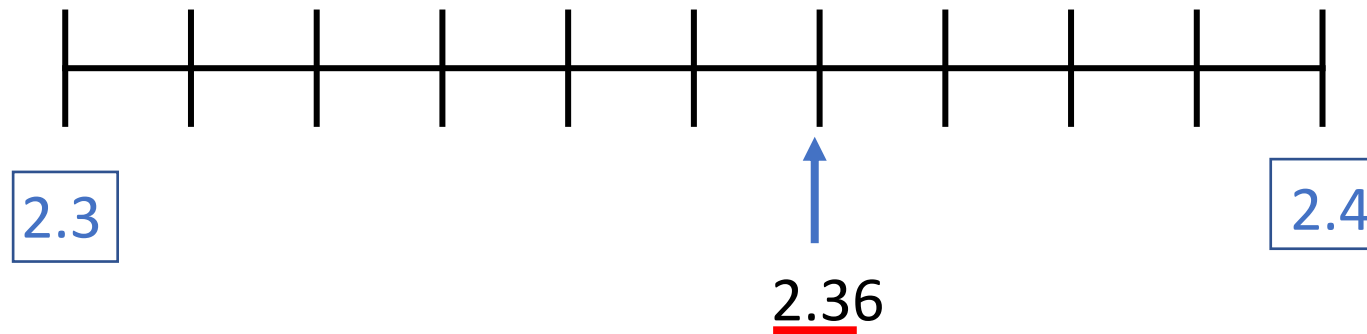
Which **integers** does 3.4 lie between?



The previous integer is 3

The next integer is 4

Which **tenths** does 2.36 lie between?



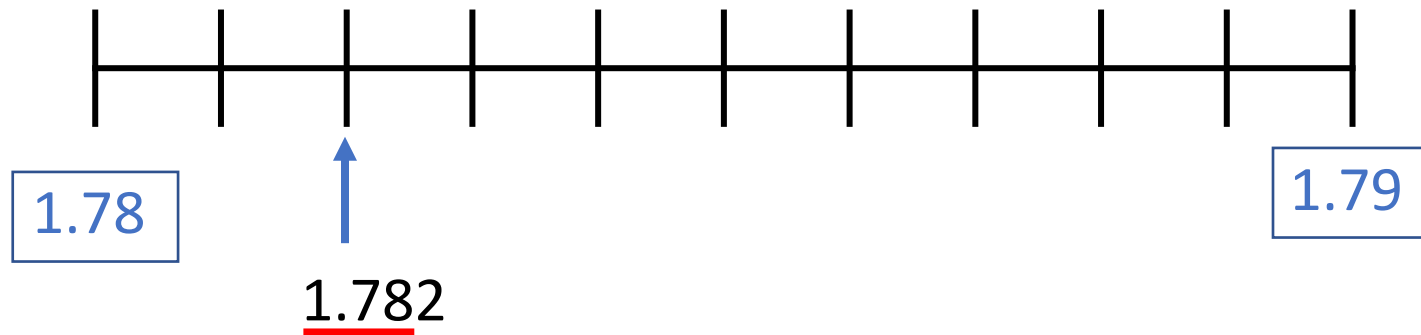
The previous tenth is 2.3

The next tenth is 2.4

Have a think



Which **hundredths** does 1.782 lie between?



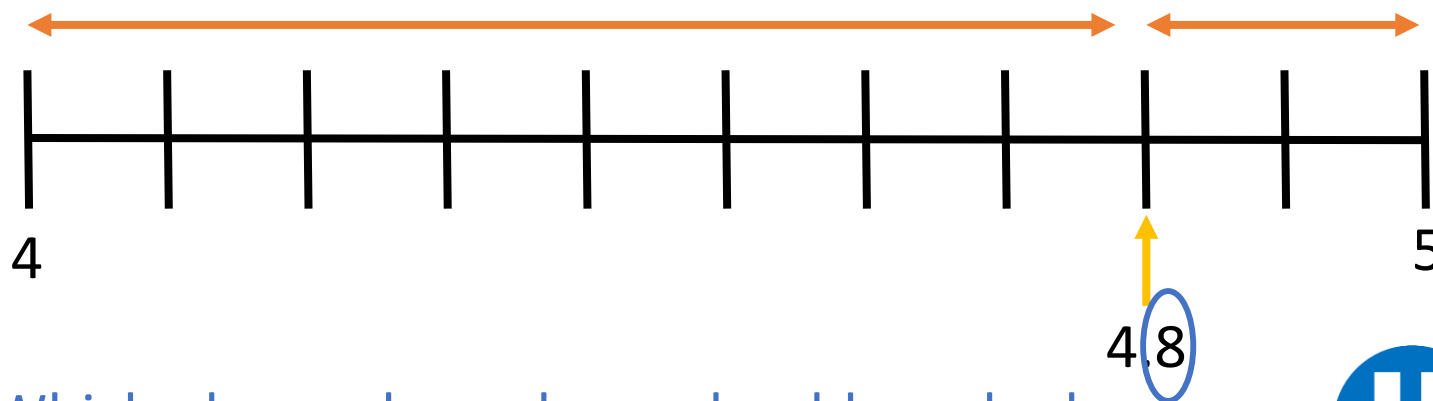
The previous hundredth is 1.78

The next hundredth is 1.79

Have a think



Round 4.8 to the nearest integer



Which place value column should you look at when rounding to the nearest integer?



Have a think

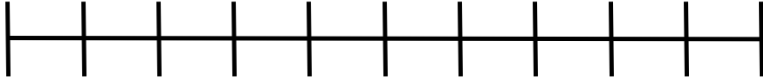
The previous integer is 4

The next integer is 5

4.8 is closer to 5 than 4

4.8 rounded to the nearest integer is 5

Round 4.8 to the nearest integer



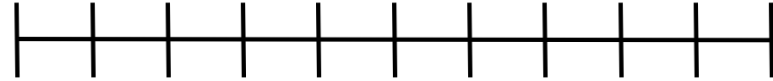
The previous integer is _____

The next integer is _____

_____ is closer to _____ than _____

4.8 rounded to the nearest integer is _____

Round 4.8 to the nearest integer



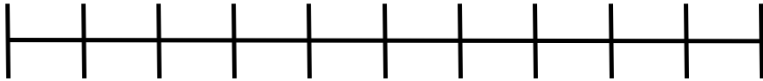
The previous integer is _____

The next integer is _____

_____ is closer to _____ than _____

4.8 rounded to the nearest integer is _____

Round 4.8 to the nearest integer



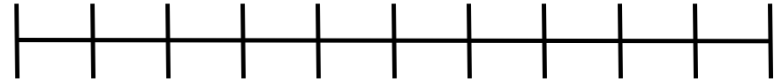
The previous integer is _____

The next integer is _____

_____ is closer to _____ than _____

4.8 rounded to the nearest integer is _____

Round 4.8 to the nearest integer



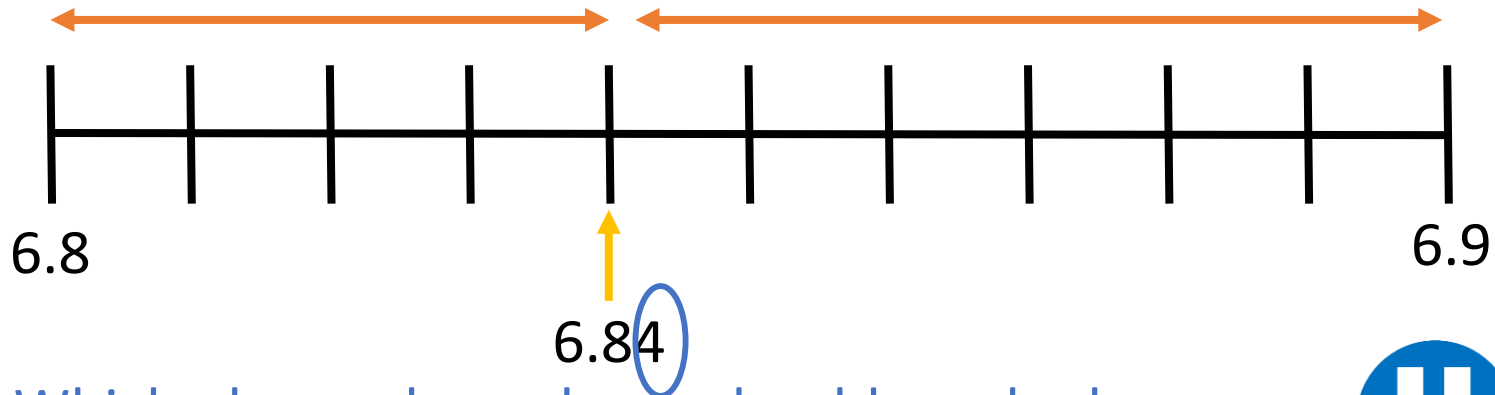
The previous integer is _____

The next integer is _____

_____ is closer to _____ than _____

4.8 rounded to the nearest integer is _____

Round 6.84 to the nearest tenth



Which place value column should you look at when rounding to the nearest tenth?



Have a think

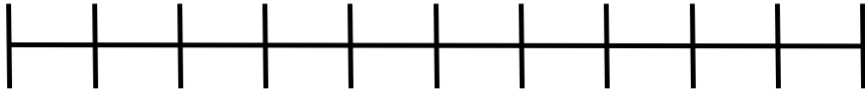
The previous tenth is 6.8

The next tenth is 6.9

6.84 is closer to 6.8 than 6.9

6.84 rounded to the nearest tenth is 6.8

Round 6.84 to the nearest tenth



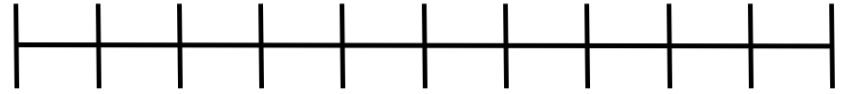
The previous tenth is _____

The next tenth is _____

_____ is closer to _____ than _____

6.84 rounded to the nearest tenth is _____

Round 6.84 to the nearest tenth



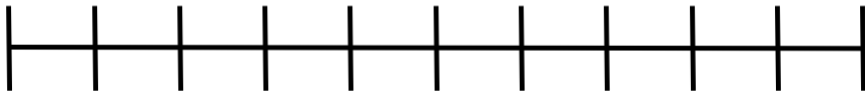
The previous tenth is _____

The next tenth is _____

_____ is closer to _____ than _____

6.84 rounded to the nearest tenth is _____

Round 6.84 to the nearest tenth



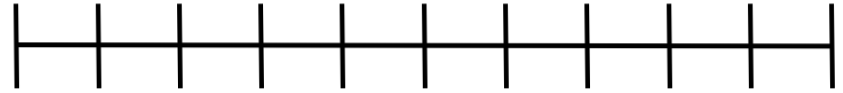
The previous tenth is _____

The next tenth is _____

_____ is closer to _____ than _____

6.84 rounded to the nearest tenth is _____

Round 6.84 to the nearest tenth



The previous tenth is _____

The next tenth is _____

_____ is closer to _____ than _____

6.84 rounded to the nearest tenth is _____

1 Which integers do the decimals lie between?

a)



b)

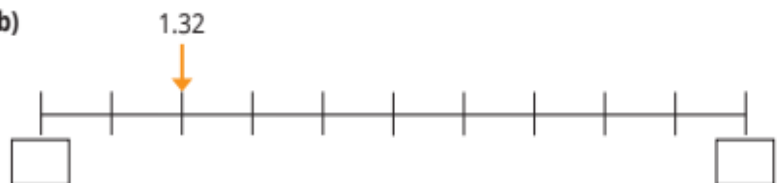


2 Which tenths do the decimals lie between?

a)

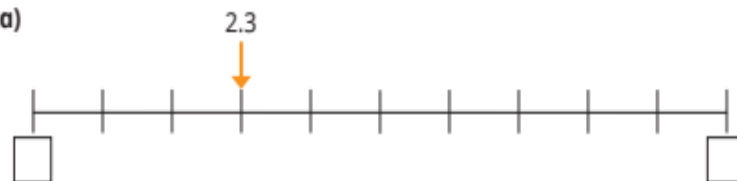


b)



1 Which integers do the decimals lie between?

a)

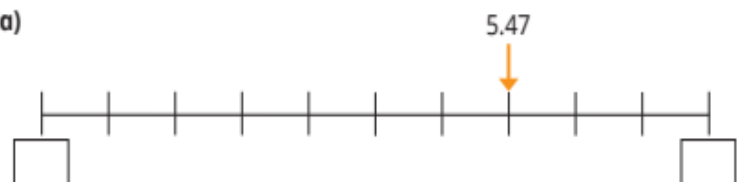


b)



2 Which tenths do the decimals lie between?

a)



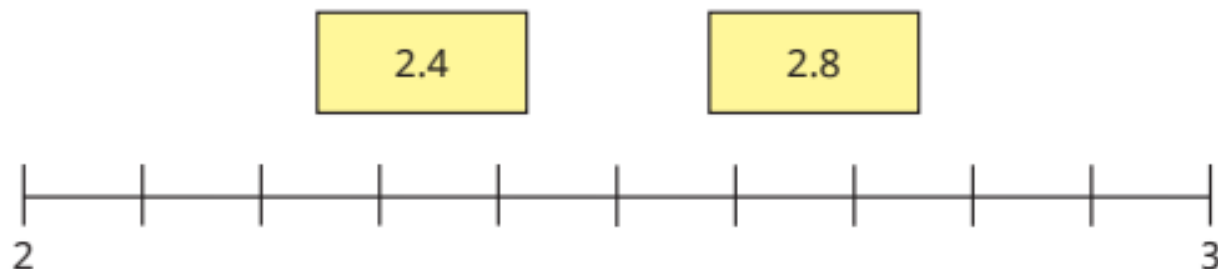
b)



4

Draw an arrow to each number on the number line.

Use the number line to complete the sentences and round each number to the nearest integer.



a) 2.4 is closer to than

2.4 rounded to the nearest integer is

b) 2.8 is closer to than

2.8 rounded to the nearest integer is



4

Draw an arrow to each number on the number line.

Use the number line to complete the sentences and round each number to the nearest integer.

2.4

2.8



a) 2.4 is closer to than

2.4 rounded to the nearest integer is

b) 2.8 is closer to than

2.8 rounded to the nearest integer is

4

Draw an arrow to each number on the number line.

Use the number line to complete the sentences and round each number to the nearest integer.

2.4

2.8



a) 2.4 is closer to than

2.4 rounded to the nearest integer is

b) 2.8 is closer to than

2.8 rounded to the nearest integer is

4

Draw an arrow to each number on the number line.

Use the number line to complete the sentences and round each number to the nearest integer.

2.4

2.8



a) 2.4 is closer to than

2.4 rounded to the nearest integer is

b) 2.8 is closer to than

2.8 rounded to the nearest integer is



Complete the table.

Number	Previous integer	Next integer	Previous tenth	Next tenth	Previous hundredth	Next hundredth
3.472	3	4	3.4	3.5	3.47	3.48
<u>2.196</u>	2	3	2.1	2.2	2.19	2.20
0.804	0	1	0.8	0.9	0.80	0.81

10 hundredths = 1 tenth

Have a think



Octagons and Hexagons only

Number	Previous integer	Next integer	Previous tenth	Next tenth	Previous hundredth	Next hundredth
3.472	3	4	3.4	3.5	3.47	3.48
2.196						
0.804						

Number	Previous integer	Next integer	Previous tenth	Next tenth	Previous hundredth	Next hundredth
3.472	3	4	3.4	3.5	3.47	3.48
2.196						
0.804						

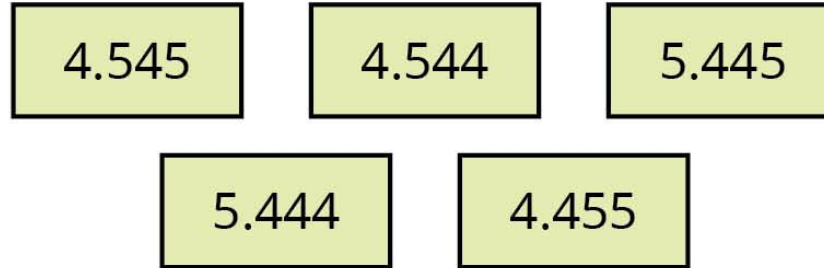
Number	Previous integer	Next integer	Previous tenth	Next tenth	Previous hundredth	Next hundredth
3.472	3	4	3.4	3.5	3.47	3.48
2.196						
0.804						

Number	Previous integer	Next integer	Previous tenth	Next tenth	Previous hundredth	Next hundredth
3.472	3	4	3.4	3.5	3.47	3.48
2.196						
0.804						

Number	Previous integer	Next integer	Previous tenth	Next tenth	Previous hundredth	Next hundredth
3.472	3	4	3.4	3.5	3.47	3.48
2.196						
0.804						



Here are some number cards.



Use each number once only to complete the sentences.

_____ rounded to the nearest tenth is 4.5

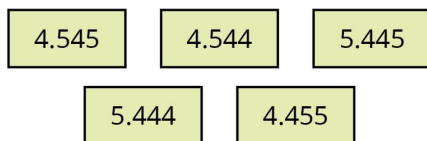
_____ rounded to the nearest integer is 4

_____ rounded to the nearest tenth is 5.4

_____ rounded to the nearest hundredth is 5.45

_____ rounded to the nearest hundredth is 4.54

Here are some number cards.



Use each number once only to complete the sentences.

_____ rounded to the nearest tenth is 4.5

_____ rounded to the nearest integer is 4

_____ rounded to the nearest tenth is 5.4

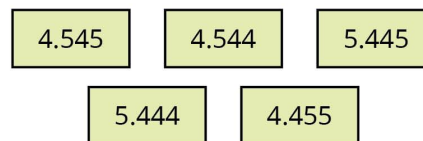
_____ rounded to the nearest hundredth is 5.45

_____ rounded to the nearest hundredth is 4.54

Round decimals

© White Rose Maths 2022

Here are some number cards.



Use each number once only to complete the sentences.

_____ rounded to the nearest tenth is 4.5

_____ rounded to the nearest integer is 4

_____ rounded to the nearest tenth is 5.4

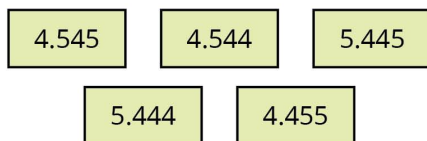
_____ rounded to the nearest hundredth is 5.45

_____ rounded to the nearest hundredth is 4.54

Round decimals

© White Rose Maths 2022

Here are some number cards.



Use each number once only to complete the sentences.

_____ rounded to the nearest tenth is 4.5

_____ rounded to the nearest integer is 4

_____ rounded to the nearest tenth is 5.4

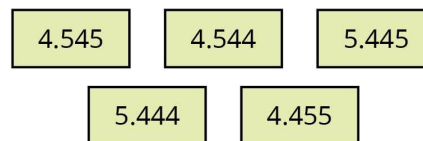
_____ rounded to the nearest hundredth is 5.45

_____ rounded to the nearest hundredth is 4.54

Round decimals

© White Rose Maths 2022

Here are some number cards.



Use each number once only to complete the sentences.

_____ rounded to the nearest tenth is 4.5

_____ rounded to the nearest integer is 4

_____ rounded to the nearest tenth is 5.4

_____ rounded to the nearest hundredth is 5.45

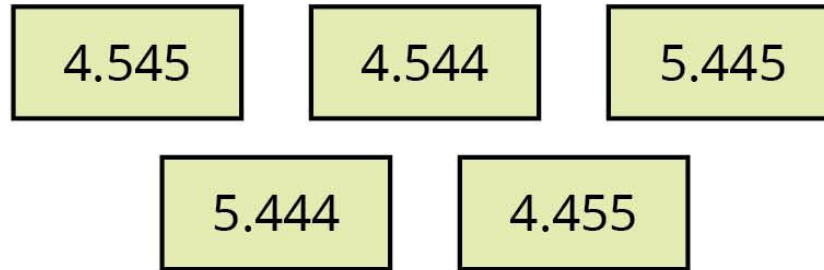
_____ rounded to the nearest hundredth is 4.54

Round decimals

© White Rose Maths 2022



Here are some number cards.



Use each number once only to complete the sentences.

_____ rounded to the nearest tenth is 4.5

_____ rounded to the nearest integer is 4

_____ rounded to the nearest tenth is 5.4

_____ rounded to the nearest hundredth is 5.45

_____ rounded to the nearest hundredth is 4.54

Use the digit cards to make the statements correct.

You may use each card once only.

4

5

6

7



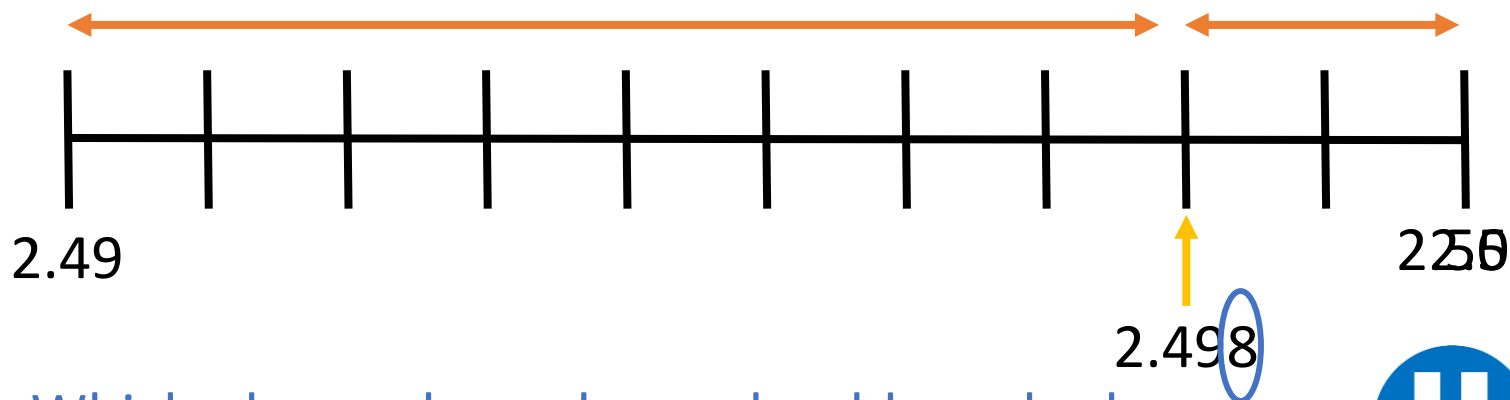
.803 rounded to the nearest integer is 6

5.9 rounded to the nearest tenth is 6

6. rounded to the nearest integer is 6

.002 rounded to the nearest hundredth is 6

Round 2.498 to the nearest hundredth



Which place value column should you look at when rounding to the nearest hundredth?



Have a think

The previous hundredth is 2.49

The next hundredth is ~~2.50~~

2.498 is closer to 2.5 than 2.49

2.498 rounded to the nearest hundredth is 2.5

Which is the odd one out?

$$2 + 0.1 + 0.02 + 0.003$$

2.123

$$1 + 1.1 + 0.02 + 0.003$$

2.123

$$2 + 1.1 + 0.03$$

3.13

$$2 + 0.1 + 0.01 + 0.013$$

2.123

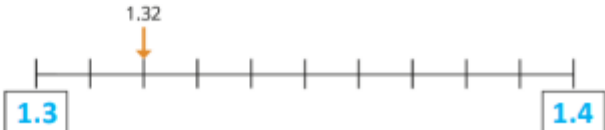
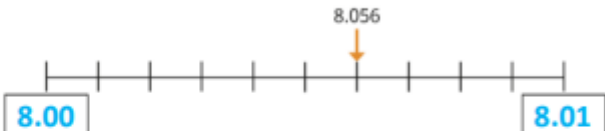
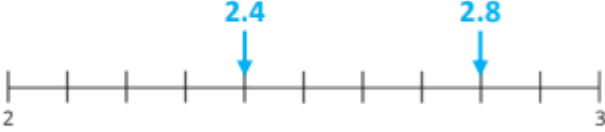
$$2 + 0.1 + 0.023$$

2.123

Explain your answer.

Have a think



1	a)  b) 
2	a)  b) 
3	a)  b) 
4	 a) 2.4 is closer to 2 than 3 2.4 rounded to the nearest integer is 2 b) 2.8 is closer to 3 than 2 2.8 rounded to the nearest integer is 3

6



- a) 5.47 is closer to **5.5** than **5.4**
 5.47 rounded to the nearest tenth is **5.5**
 b) 5.42 is closer to **5.4** than **5.5**
 5.42 rounded to the nearest tenth is **5.4**

7

- a) 5.6
 b) 2.9
 c) 3.4
 d) 1.6
 e) 0.9
 f) 0

8



- a) 3.821 is closer to **3.82** than **3.83**
 3.821 rounded to the nearest hundredth is **3.82**
 b) 3.828 is closer to **3.83** than **3.82**
 3.828 rounded to the nearest tenth is **3.83**

9

- a) 2.09
 b) 7.65
 c) 0.87
 d) 1.07

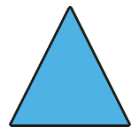
10

Number	Rounded to the nearest ...		
	integer	tenth	hundredth
7.349	7	7.3	7.35
12.209	12	12.2	12.21
22.745	23	22.7	22.75



Toby thinks he has correctly matched the decimal numbers to the shapes using the clues given.

Is Toby correct? Explain your reasoning.

Decimal Numbers		Shapes
3.902	→	
2.092	↘	
9.390	↗	
0.392	↗	

Clues:

- The triangle has two thousandths. The star has the same number of ones as thousandths.
- The lightning bolt has less ones than tenths.
- The heart has 90 thousandths.

Toby thinks he has correctly matched the decimal numbers to the shapes using the clues given.

Is Toby correct? Explain your reasoning.

Decimal Numbers	Shapes
3.902	
2.092	
9.390	
0.392	

- Clues:
- The triangle has two thousandths.
 - The star has the same number of ones as thousandths.
 - The lightning bolt has less ones than tenths.
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Toby thinks he has correctly matched the decimal numbers to the shapes using the clues given.

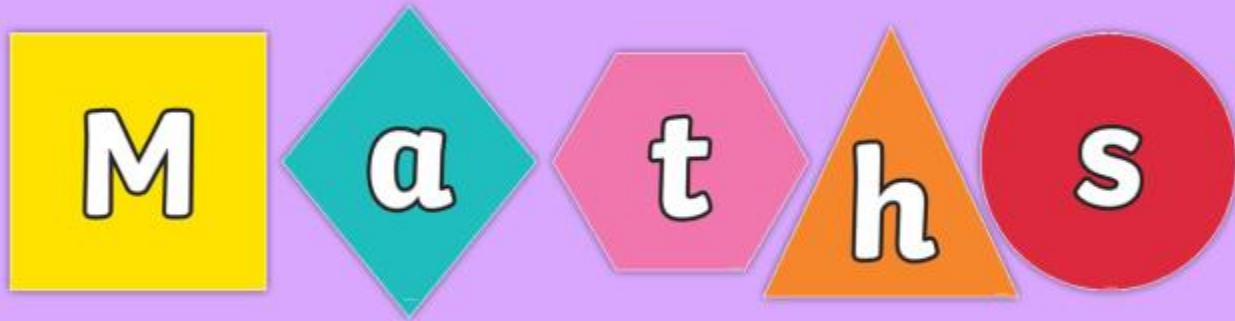
Is Toby correct? Explain your reasoning.

Decimal Numbers	Shapes
3.902	
2.092	
9.390	
0.392	

- Clues:
- The triangle has two thousandths.
 - The star has the same number of ones as thousandths.
 - The lightning bolt has less ones than tenths.
 - The heart has 90 thousandths.

Thurs-Maths meeting

Time problems



Time revision

Time Word Problem Challenge Cards

4. The teacher marked tests from 7:15 p.m. until 8:03 p.m. How long did they spend marking tests?



Time Word Problem Challenge Cards

6. Your neighbour began her run at 8:00 a.m. She ran for 45 minutes. She walked for a further 20 minutes. At what time did she finish her exercise?

