

Year 4 Maths, 22nd April 2020

LO: compare decimals

- ▶ **SOME WILL EVEN** prove that they have found every possible solution to a comparing decimals puzzle.
- ▶ **SOME** will find more than one way to answer comparing decimals questions.
- ▶ **MOST** will use mathematical symbols to complete comparison questions.
- ▶ **ALL** will compare decimal numbers.

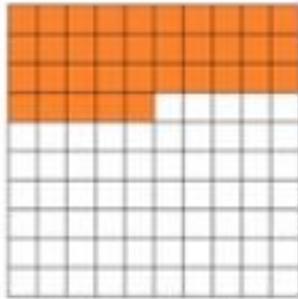
RECALL

Complete the equation.

$$1 = 0.56 + \underline{\hspace{2cm}}$$

Write 0.67 as a fraction.

What decimal is shaded on the hundred square?



 Find the product of 12 and 7

RECALL
answers

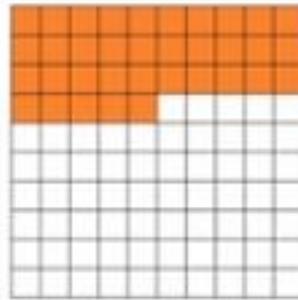
Complete the equation.

$$1 = 0.56 + \underline{0.44}$$

Write 0.67 as a fraction.

$$\frac{67}{100}$$

What decimal is shaded on the hundred square?



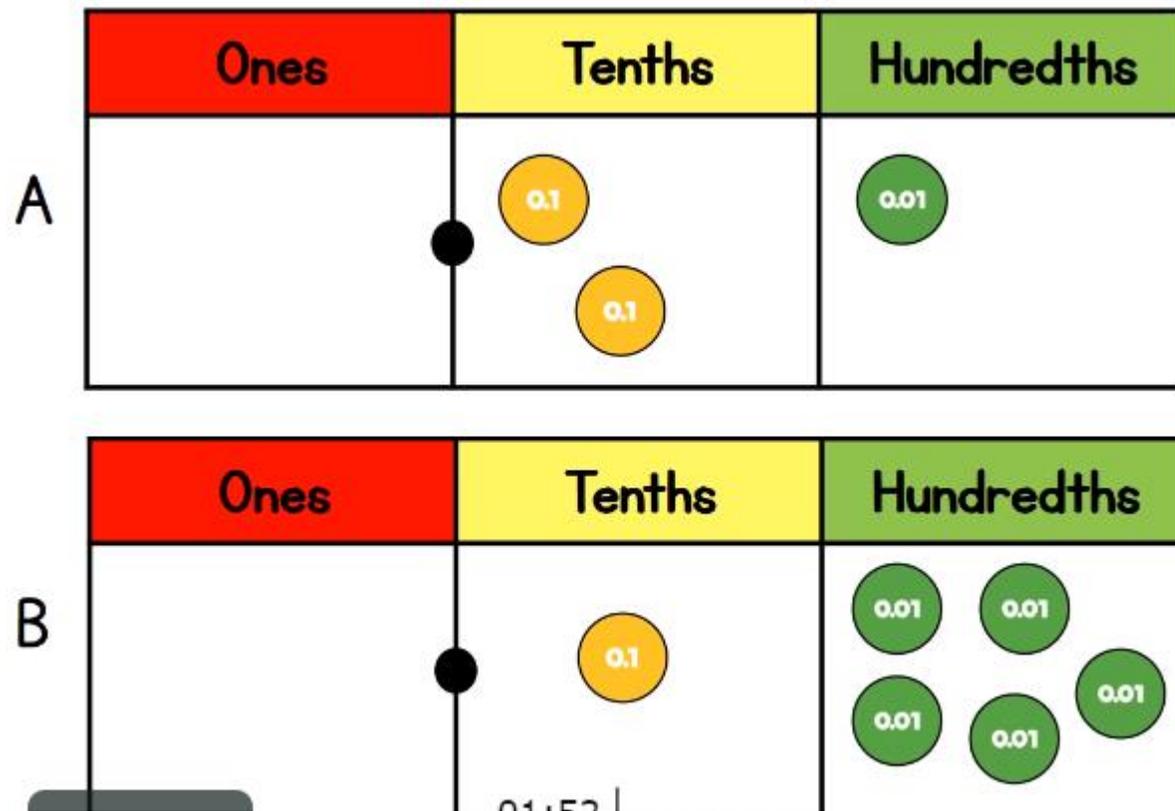
0.35

Find the product of 12 and 7

The product is the answer when you multiply the numbers together. $12 \times 7 = 84$

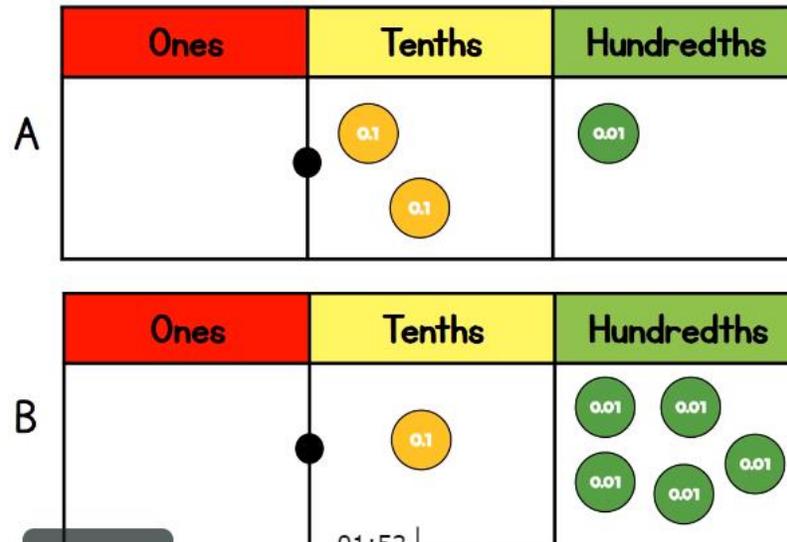
Guided practice

- ▶ Look at these two decimal numbers.



Guided practice

► Look at these two decimal numbers.



0.21

0.15

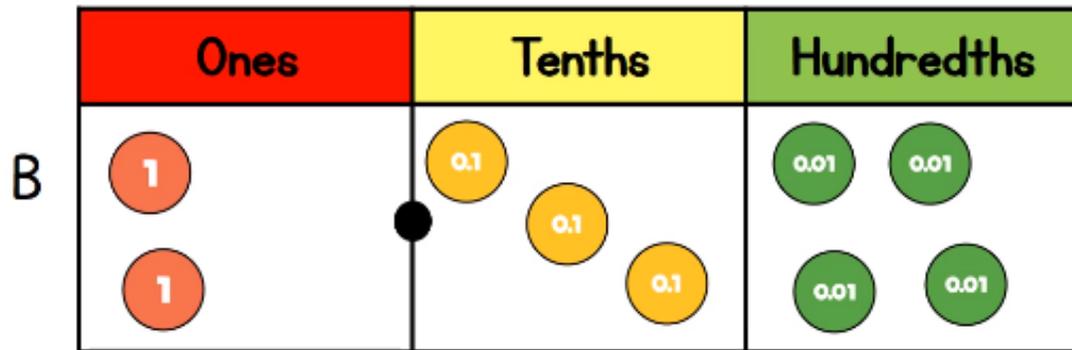
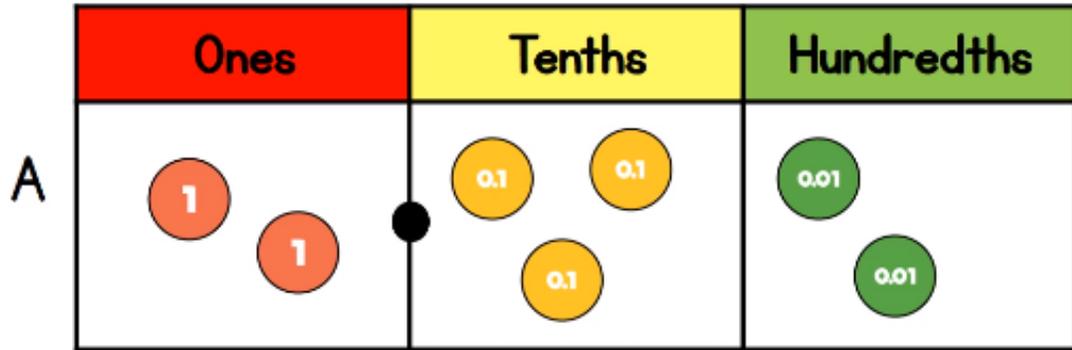
Now that we have found the value of A and B, we can see that A is the bigger number.

We can write this in a number sentence like this:

$$A > B$$

Remember, the small point points to the smaller number!

► Have a go at comparing these numbers:



A B

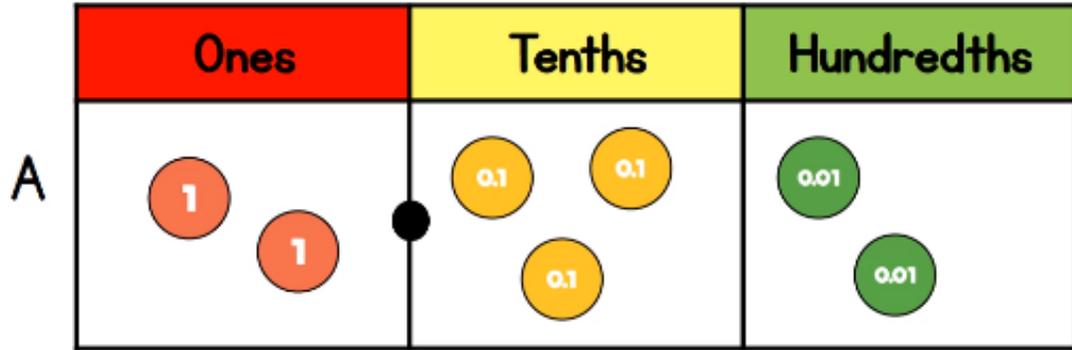
Fill the box with one of

<

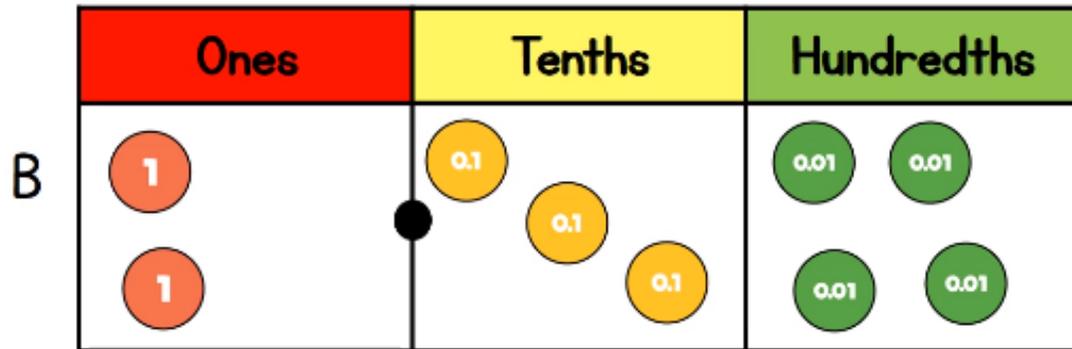
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=

► Have a go at comparing these numbers:



2.32



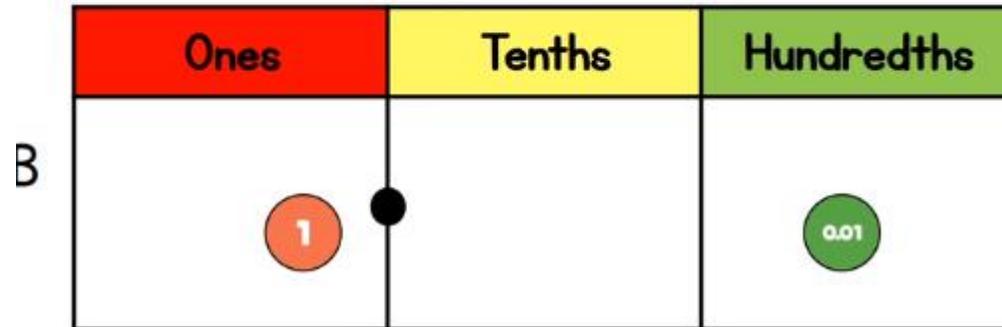
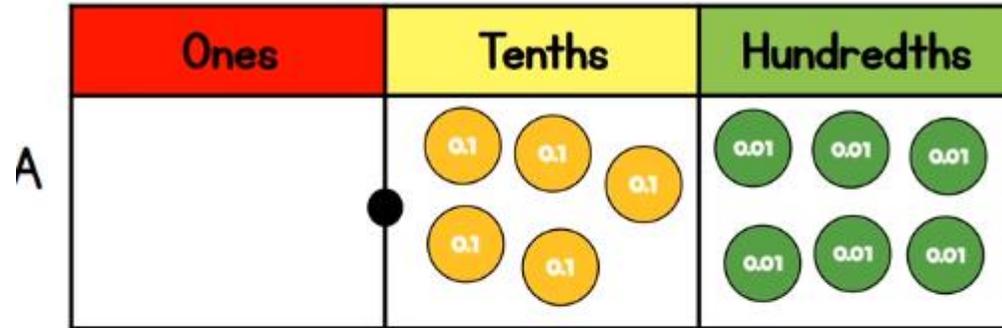
2.34

A B

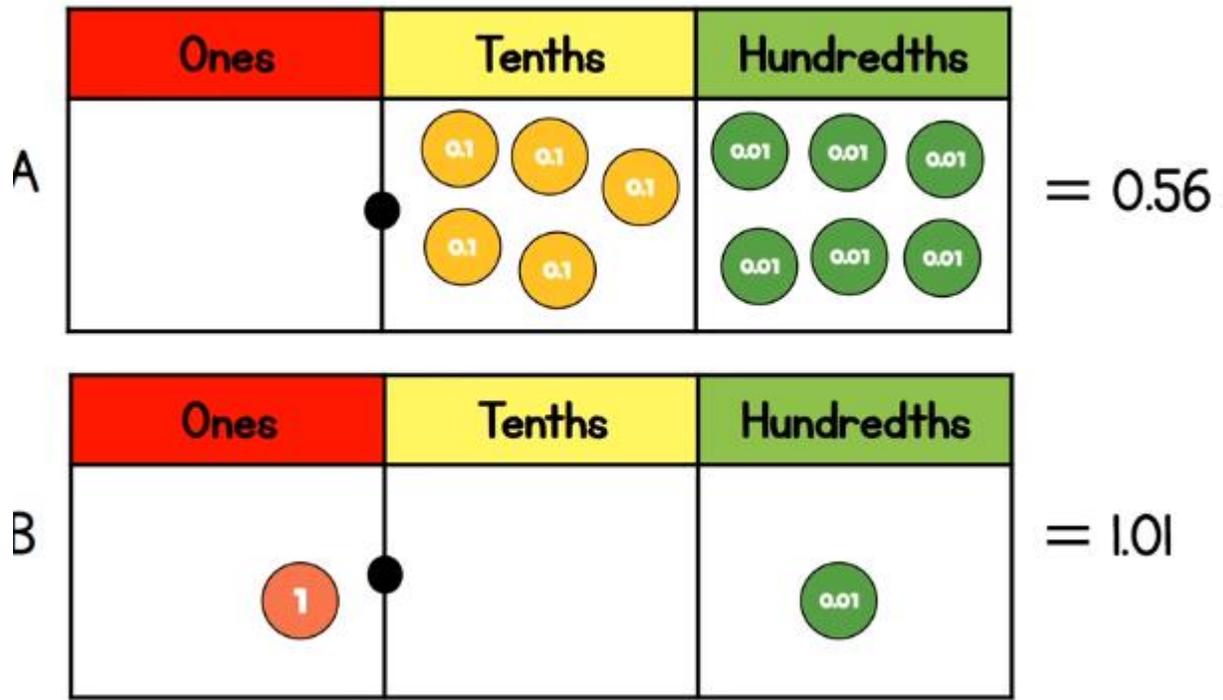
Fill the box with one of

< > =

► Try this one:



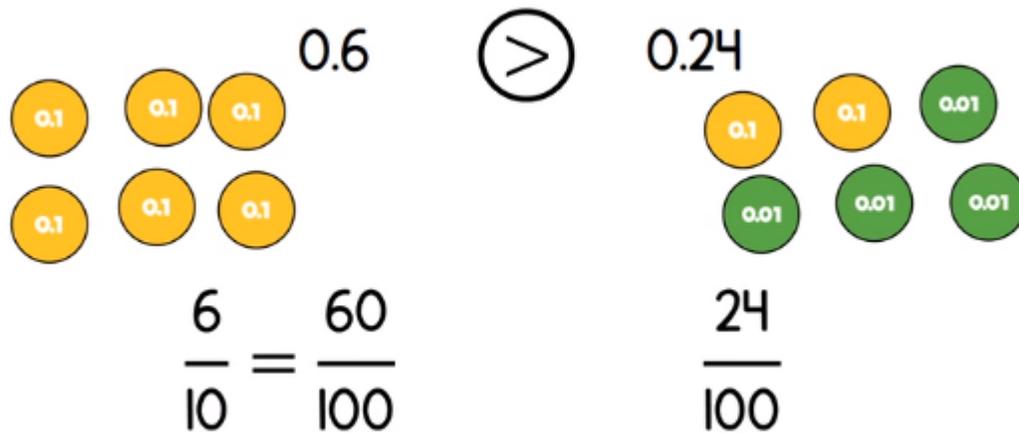
A B



A B

► Can you see the mistake here?

$$0.6 < 0.24$$



This is correct. Look at the different symbol used to compare the two numbers.

► Have a go at comparing these numbers.

0.9 ○ 0.14

1.02 ○ 0.89

0.07 ○ 0.7

► Have a go at comparing these numbers.

0.9 $>$ 0.14

1.02 $>$ 0.89

0.07 $<$ 0.7

Intelligent practice - One chilli

1 Write < or > to compare the decimals.

a)

○	Tths	Hths
	● 0.1 ● 0.1	● 0.01 ● 0.01 ● 0.01 ● 0.01

 ○

○	Tths	Hths
	● 0.1 ● 0.1 ● 0.1	● 0.01 ● 0.01 ● 0.01 ● 0.01 ● 0.01

b)

○	Tths	Hths
● 1 ● 1 ● 1	● 0.1	● 0.01 ● 0.01 ● 0.01 ● 0.01 ● 0.01

 ○

○	Tths	Hths
● 1 ● 1 ● 1	● 0.1 ● 0.1 ● 0.1 ● 0.1 ● 0.1 ● 0.1	● 0.01 ● 0.01 ● 0.01

c)

○	Tths	Hths
● 1 ● 1 ● 1	● 0.1	● 0.01 ● 0.01 ● 0.01 ● 0.01 ● 0.01 ● 0.01

 ○

○	Tths	Hths
● 1 ● 1	● 0.1 ● 0.1	● 0.01 ● 0.01 ● 0.01 ● 0.01 ● 0.01

d)

○	Tths	Hths
● 1 ● 1	● 0.1 ● 0.1	● 0.01 ● 0.01 ● 0.01 ● 0.01 ● 0.01 ● 0.01

 ○

○	Tths	Hths
● 1 ● 1	● 0.1 ● 0.1	● 0.01 ● 0.01 ● 0.01 ● 0.01 ● 0.01

One chilli answers

1 Write $<$ or $>$ to compare the decimals.

a)

○	Tths	Hths
	● ●	● ● ● ●

 $<$

○	Tths	Hths
	● ● ●	● ● ● ● ●

b)

○	Tths	Hths
● ● ●	●	● ● ● ● ●

 $<$

○	Tths	Hths
● ● ●	● ● ● ●	● ● ● ● ● ●

c)

○	Tths	Hths
● ● ●	●	● ● ● ● ● ●

 $>$

○	Tths	Hths
● ●	● ●	● ● ● ● ● ●

d)

○	Tths	Hths
● ●	● ●	● ● ● ● ● ●

 $>$

○	Tths	Hths
● ●	● ●	● ● ● ● ● ●

Two chillies

Write $<$ or $>$ to compare the numbers.

a) 3.2 3.8

c) 1 0.99

b) 1.46 1.43

d) 0.16 0.8

Two chillies ANSWERS

Write < or > to compare the numbers.

a) 3.2 $<$ 3.8

c) 1 $>$ 0.99

b) 1.46 $>$ 1.43

d) 0.16 $<$ 0.8

Three chillies

Fill in the missing digits to make the statements correct.

a) $0.34 < 0.3_$

d) $1.3_ < 1.3_$

b) $2.42 > 2.4_$

e) $2._2 > 2._2$

c) $0.74 < 0._2$

f) $0.8_ < 0._9$

Is there more than one answer for each?

Three chillies answers

Fill in the missing digits to make the statements correct. e.g.

a) $0.34 < 0.3\underline{5}$

d) $1.3\underline{1} < 1.3\underline{2}$

b) $2.42 > 2.4\underline{1}$

e) $2.\underline{4}2 > 2.\underline{3}2$

c) $0.74 < 0.\underline{8}2$

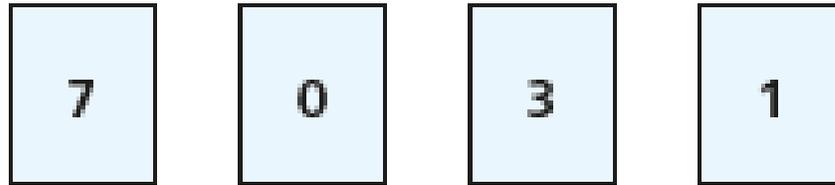
f) $0.8\underline{9} < 0.\underline{9}9$

Is there more than one answer for each?

Yes - which is why these answers are only examples!

DIVE DEEPER

Here are four digit cards.



Use each digit card once to make this statement correct.

$$\square . \square > \square . \square$$

How many possible answers are there?

DIVE DEEPER answers

e.g.

$$\boxed{7} \cdot \boxed{0} > \boxed{3} \cdot \boxed{1}$$

This is just one example of a correct answer.
How many possibilities do you think there are?
Can you prove you've found every possibility?

- ▶ Self assessment - how did you do?
- ▶ SOME WILL EVEN prove that they have found every possible solution to a comparing decimals puzzle.
- ▶ SOME will find more than one way to answer comparing decimals questions.
- ▶ MOST will use mathematical symbols to complete comparison questions.
- ▶ ALL will compare decimal numbers.