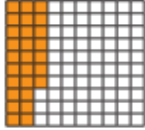


Make a whole

1 Here is a hundred square.

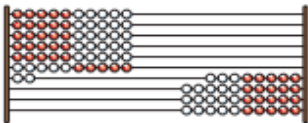


a) How many hundredths are shaded?

b) How many more hundredths do you need to shade so that the whole hundred square is shaded?

c) Complete the sentence.
 hundredths + hundredths = 1 whole

2 Here is a Rekenrek with 100 beads.
Each bead is one hundredth of the whole.



Complete the sentences.

a) hundredths are on the left.

b) hundredths are on the right.

c) + = 1

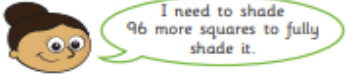
3 Fill in the missing digits.

a) 1 tenth = hundredths d) 32 hundredths =

b) $\frac{2}{10} = \frac{\text{ }}{100}$ e) 0.4 = tenths

c) 70 hundredths = tenths f) 50 hundredths =

4 Dora has shaded 4 tenths of a hundred square.




I need to shade 96 more squares to fully shade it.

Do you agree with Dora?


Explain your reasoning.

5 Complete the part-whole models.

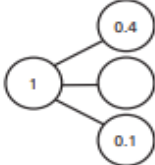
a)



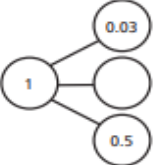
c)



b)



d)



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6 Tick the calculations that do **not** sum to 1

$0.4 + 0.6$ <input type="checkbox"/>	$0.4 + 0.06$ <input type="checkbox"/>	$0.04 + 0.06$ <input type="checkbox"/>
$0.8 + 0.92$ <input type="checkbox"/>	$0.08 + 0.92$ <input type="checkbox"/>	$0.92 + 0.08$ <input type="checkbox"/>

How did you work this out?

7 Mo has a metre-long piece of ribbon.
He cuts off a piece of ribbon 24 cm long.
What is the length of the remaining ribbon?

The length of the remaining ribbon is m.

8 Fill in the missing numbers.

a) $0.1 + \text{ } = 1$ d) $0.15 + 0.64 + \text{ } = 1$

b) $\text{ } + 0.01 = 1$ e) $0.15 + \text{ } + 0.65 = 1$

c) $0.03 + \text{ } = 1$ f) $\text{ } + 0.04 + 0.5 = 1$

9 Two identical bead strings have a total length of 64 cm.
Would the total length of three of these bead strings be longer or shorter than a metre?

Explain how you know.

10 Here are eight number cards.

$\frac{6}{10}$	$\frac{19}{100}$	0.2	0.5	$\frac{8}{10}$	0.01	$\frac{30}{100}$	0.4
----------------	------------------	-----	-----	----------------	------	------------------	-----

Use the number cards to make each calculation correct.
You can use each number once only.

+ = 1

+ + = 1

+ + = 1

How many other ways can you find to make a total of 1?

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Write decimals

1 Make the number represented on each of the place value charts. Complete the sentences to describe each number.

a)

Ones	Tenths	Hundredths
1 1 1	0.1 0.1	0.01 0.01 0.01

 There are ones, tenths and hundredths.
The number is

b)

Ones	Tenths	Hundredths
	0.1 0.1 0.1	0.01 0.01 0.01

 There are ones, tenths and hundredths.
The number is

c)

Ones	Tenths	Hundredths
1 1 1		0.01 0.01 0.01

 There are ones, tenths and hundredths.
The number is

d)

Ones	Tenths	Hundredths
1 1 1	0.1 0.1 0.1	0.01

 There are ones, tenths and hundredths.
The number is

2 Make each number on a place value chart. Write the value of the underlined digit.

- a) 6.31 _____
- b) 12.09 _____
- c) 0.07 _____
- d) 56.82 _____

3 Alex says the number on the place value chart is 3.4



Do you agree with Alex? _____
Explain your answer.

4 Fill in the zeros needed as placeholders for each number.

a)	T O Tths Hths	d)	T O Tths Hths
	3 2 ● 4		● ● ● 5 ●
b)	T O Tths Hths	e)	T O Tths Hths
	● 2 ● 4		● ● ● 2 ●
c)	T O Tths Hths	f)	T O Tths Hths
	● ● ● 4		3 ● ● 5 ●

Compare answers with a partner.

5 Complete the part-whole models.

a)

0.2	0.09

 c)

0.4	0.53

b)

0.3	0.07

 d)

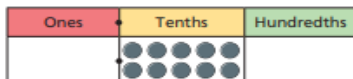
0.81	0.4

6 Here is a part-whole model. Partition 0.72 in three different ways and complete the number sentences.

0.72	

+ = 0.72
 + = 0.72
 + = 0.72

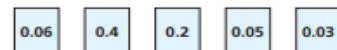
7 Eva is asked to show 10 tenths on a place value chart. Here is her answer.



Is Eva correct?

8 Here are five number cards.

Annie, Rosie, Jack, Dora and Whitney take one card each.



Use the clues to work out which number they each have.

My number has 5 hundredths. My number is twice as much as Dora's.

Annie Rosie

My number has 2 zero place holders. My number is more than Jack's.

Jack Dora

My number is less than Jack's.

Whitney

Annie Dora Whitney

Rosie Jack

Did your partner use the same method?

Compare decimals



1 Write < or > to compare the decimals.

a)

O	Tths	Hths
	●●	●●●●●●

 ○

O	Tths	Hths
	●●●●	●●●●●●

b)

O	Tths	Hths
●●●●	●	●●●●●●

 ○

O	Tths	Hths
●●●●	●●●●	●●●●●●

c)

O	Tths	Hths
●●●●	●	●●●●●●

 ○

O	Tths	Hths
●●●●	●●●●	●●●●●●

d)

O	Tths	Hths
●●●●	●●●●	●●●●●●

 ○

O	Tths	Hths
●●●●	●●●●	●●●●●●

Did you have to compare all the columns for every question?

2 Draw counters to make the statements correct.

a)

O	Tths	Hths
●●●●	●	●●●●●●

 <

O	Tths	Hths

b)

O	Tths	Hths
●●●●	●	●●●●●●

 >

O	Tths	Hths
●●●●		

5 Ron and Amir have each made a number using counters on a place value chart.

Ron's looks like this:

Ones	Tenths	Hundredths
	●●●●●●	●●●●

Amir's looks like this:

Ones	Tenths	Hundredths
●●●●		

My number is greater than Amir's, because I have used twice as many counters.

Do you agree with Ron? _____
Explain your reasoning.

6 Draw exactly 8 counters in each chart to represent a number that matches each statement.

a) a number less than 0.76

Ones	Tenths	Hundredths

b) a number more than 5.74

Ones	Tenths	Hundredths

c) a number between 5.13 and 5.29

Ones	Tenths	Hundredths

How many different answers are there for each statement?

3 Write < or > to compare the decimals.

a)

O	Tths	Hths
7	6	8

 ○

O	Tths	Hths
7	0	2

b)

O	Tths	Hths
3	2	5

 ○

O	Tths	Hths
3	9	6

c)

O	Tths	Hths
0	4	1

 ○

O	Tths	Hths
0	2	9

d)

O	Tths	Hths
1	0	3

 ○

O	Tths	Hths
1	2	0

e)

O	Tths	Hths
2	7	2

 ○

O	Tths	Hths
2	7	1

4 Complete the place value charts to make the statements correct.

a)

O	Tths	Hths
6	2	8

 <

O	Tths	Hths

b)

O	Tths	Hths
3	2	6

 >

O	Tths	Hths
3		

c)

O	Tths	Hths
9	9	8

 <

O	Tths	Hths

d)

O	Tths	Hths
1	4	6

 >

O	Tths	Hths
	8	

7 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

8 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?

9 Here are four digit cards.

7	0	3	1
---	---	---	---

Use each digit card once to make this statement correct.

□	.	□	>	□	.	□
---	---	---	---	---	---	---

How many possible answers are there?



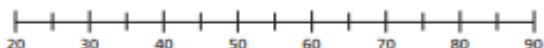
Round decimals



1 Here are some number cards.



a) Draw arrows to estimate the position of the numbers on the number line.



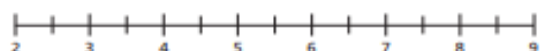
b) Use the numbers to complete the sentences.

- is closer to 50 than 40
- is closer to 30 than 20
- is closer to 80 than 90
- is closer to 60 than 70

2 Here are some number cards.



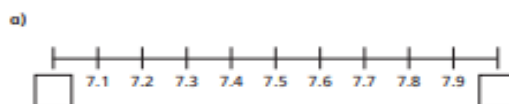
a) Draw arrows to estimate the position of the numbers on the number line.



b) Use the numbers to complete the sentences.

- is closer to 5 than 4
- is closer to 3 than 2
- is closer to 8 than 9
- is closer to 6 than 7

3 Fill in the integers on the number lines.



4 Which integers do the numbers lie between?

Fill in the boxes to make the statements correct.

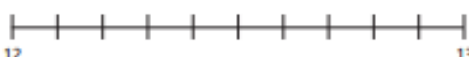
- a) < 1.4 <
- b) < 34.8 <
- c) < 0.7 <

5 a) Label 4.3 on the number line.



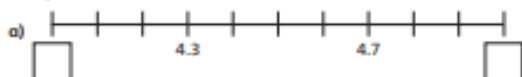
Is it closer to 4 or 5?

b) Label 12.8 on the number line.

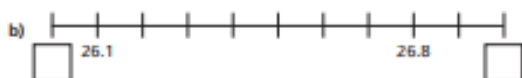


Is it closer to 12 or 13?

6 Complete the number lines and sentences.



- is closer to than
- is closer to than



- is closer to than
- is closer to than

7 Which numbers round up to the nearest whole number?

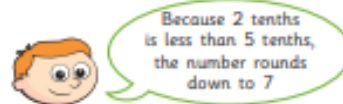
Circle your answers.

- 4.1 2.8 0.7 12.3 0.5 99.3

8 Round each decimal to the nearest whole number.

- a) 1.8
- b) 4.2
- c) 0.9
- d) 1.5
- e) 13.7
- f) 20.1
- g) 0.4
- h) 99.8

9 Ron is rounding 8.2 to the nearest whole number.



Do you agree with Ron? _____

Explain your answer.

10 Tommy is thinking of a number that has one decimal place.

When he rounds his number to the nearest whole, the answer is 32

What number could Tommy be thinking of?

Are there any other answers?

