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4
4
8
12
16

20
20
24
24
28
32

36
36
40
44
48

52
52
56
60
64

68
68
72
76
80

This tells you which page you need.



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Answers to Practice questions

84
84
88
92
96

100
100
104
108
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116
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120
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128

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The first page of a lesson is a maths problem. Don't look at the next page until you have had a go! The third and fourth pages give you practice, so you can check your understanding.

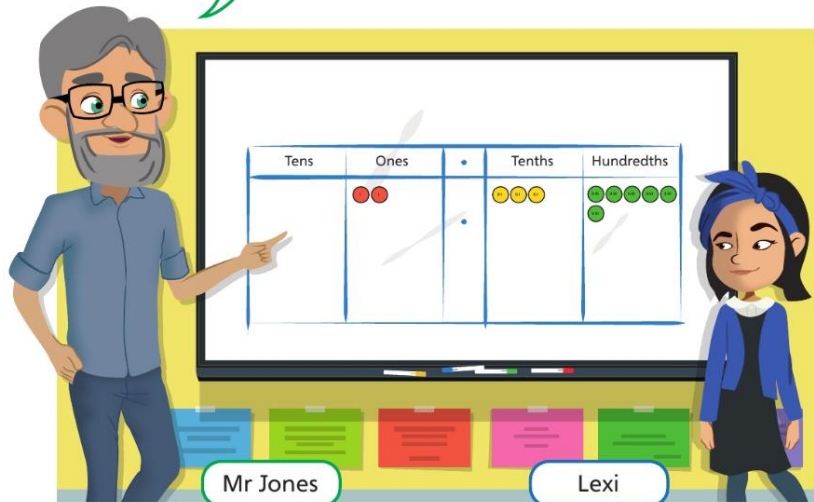


Lesson 1

Writing decimals

Discover

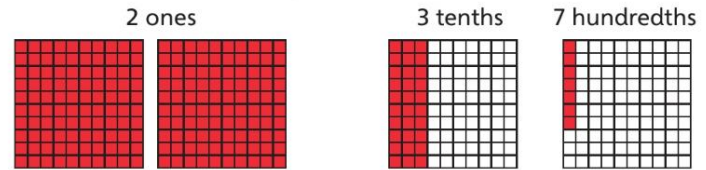
Make the number 2.37.



- 1 a) What mistake has Lexi made?
- b) Show 13.5 on a place value grid.

Share

a) The number 2.37 is made up of:



I know what each digit in a decimal means! The first digit after the decimal point tells me how many tenths. The second digit tells me how many hundredths.

T	O	•	Tth	Hth
	● ●	•	● ● ●	● ● ● ● ● ● ●
	2	•	3	

$$2.37 = 2 + 0.3 + 0.07$$

Lexi's answer shows 2 ones and 3 tenths so this is correct.

Lexi's hundredths column only has 6 hundredths. 2.37 has 7 hundredths, so this is Lexi's mistake.

b) 13.5 has 1 ten, 3 ones and 5 tenths, so $13.5 = 10 + 3 + 0.5$.

T	O	•	Tth	Hth
●	● ● ●	•	● ● ● ● ●	
		•		

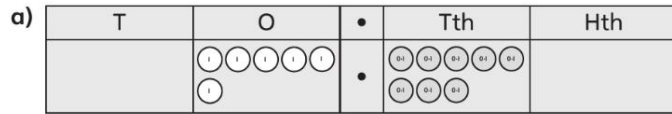
There are no hundredths in this number. We do not write the 0 on the end of 13.5.



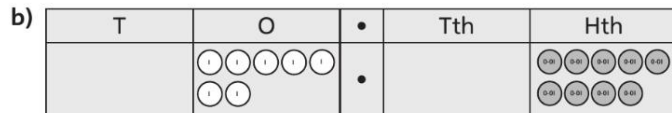
Lesson 1

Writing decimals

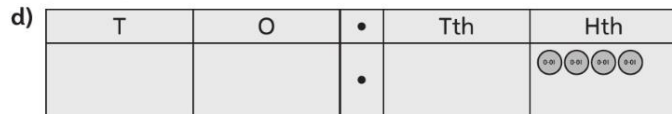
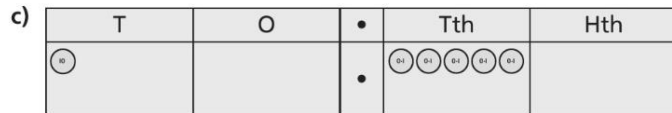
1 What numbers are shown on the place value grids?



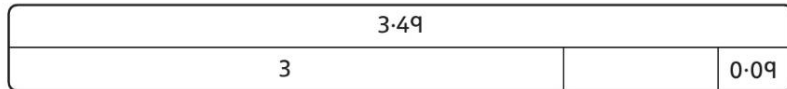
.



.



2 Complete the bar model and the calculation.



$3.49 = 3$ _____ + tenths + 9 _____

3 Which image does not represent 0.12?

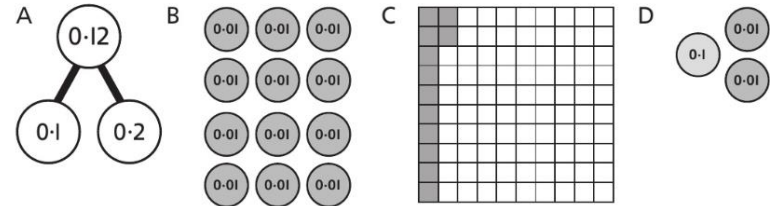


Image _____ does not represent 0.12.

4 Complete the table.

a) 7 ones + 2 tenths + 1 hundredth	7. <input type="text"/> <input type="text"/>
b) 2 tens + 9 _____ + 3 tenths + 4 _____	<input type="text"/> 9. <input type="text"/> 4
c) <input type="text"/> hundred + <input type="text"/> ones + <input type="text"/> _____	1 <input type="text"/> 5.6
d) 1 ten + 7 ones + 1 hundredth	<input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>
e) 5 tenths + 3 hundredths	<input type="text"/> . <input type="text"/> <input type="text"/>
f) 53 hundredths	<input type="text"/> . <input type="text"/> <input type="text"/>

What do you notice about e) and f)? Why is this?

Comparing decimals

Discover

I think my sunflower is the tallest.

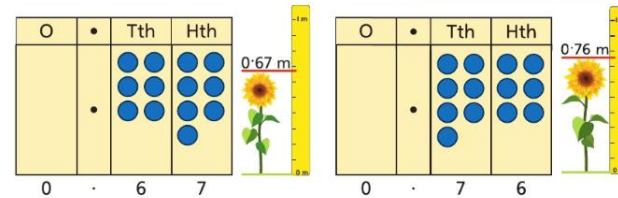
No, mine is the tallest!



- 1** a) Who is correct, Bella or Zac? Work out whether to use a $<$ or $>$ sign in the box.
 0.67 m 0.76 m
- b) Another sunflower is 0.79 metres tall. Zac thinks this sunflower is taller than his sunflower.
 Is Zac correct? How do you know?

Share

- a) The numbers 0.67 and 0.76 both have 0 ones.



I put the numbers in a place value grid. To compare the numbers, I started by looking at the tenths.

0.67 has 6 tenths and 0.76 has 7 tenths.

So, 0.76 is the largest number. Zac is correct.

$$0.67 \text{ m} < 0.76 \text{ m}$$

$<$ means less than or fewer than
 $>$ means greater than

- b) Zac's sunflower is 0.76 metres tall.

$0.76 = 7$ tenths + 6 hundredths
 $0.79 = 7$ tenths + 9 hundredths

0.79 has more hundredths than 0.76 .
 So, 0.79 is greater than 0.76 .
 Zac is correct.

I did not need to look at the hundredths column to compare the numbers.

0.76 and 0.79 have the same number of tenths.
 To compare the numbers, I think I should look at the hundredths.

Lesson 2

Comparing decimals

1 Which number is larger? Circle the larger number on the left. Then write the signs in the circles on the right to make the statements correct.

a) 9.5 or 9.9

O	.	Tth
○ ○ ○ ○ ○ ○	.	○ ○ ○ ○ ○ ○
○ ○ ○ ○ ○ ○	.	

9.5 ○ 9.9

O	.	Tth
○ ○ ○ ○ ○ ○	.	○ ○ ○ ○ ○ ○
○ ○ ○ ○ ○ ○	.	○ ○ ○ ○ ○ ○

b) 8.13 or 8.31

O	.	Tth	Hth
○ ○ ○ ○ ○ ○	.	○ ○	○ ○ ○ ○ ○ ○
○ ○ ○ ○ ○ ○	.		

8.13 ○ 8.31

O	.	Tth	Hth
○ ○ ○ ○ ○ ○	.	○ ○ ○ ○ ○ ○	○ ○
○ ○ ○ ○ ○ ○	.		

c) 20.06 or 20.05

○ ○	○ ○ ○ ○ ○ ○	○ ○ ○ ○ ○ ○	○ ○ ○ ○ ○ ○
		○ ○ ○ ○ ○ ○	

20.06 ○ 20.05

○ ○	○ ○ ○ ○ ○ ○	○ ○ ○ ○ ○ ○	○ ○ ○ ○ ○ ○
		○ ○ ○ ○ ○ ○	

d) 100.25 or 100.52

○ ○ ○ ○ ○ ○	○ ○ ○ ○ ○ ○	○ ○ ○ ○ ○ ○	○ ○ ○ ○ ○ ○
	○ ○ ○ ○ ○ ○	○ ○ ○ ○ ○ ○	

100.25 ○ 100.52

○ ○ ○ ○ ○ ○	○ ○ ○ ○ ○ ○	○ ○ ○ ○ ○ ○	○ ○ ○ ○ ○ ○
	○ ○ ○ ○ ○ ○	○ ○ ○ ○ ○ ○	

2 Richard makes two numbers.

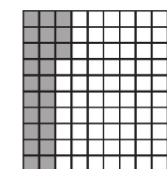
O	.	Tth	Hth
○ ○ ○ ○ ○ ○	.	○ ○ ○ ○ ○ ○	○ ○ ○ ○ ○ ○
	.		

O	.	Tth	Hth
○ ○ ○ ○ ○ ○	.		○ ○ ○ ○ ○ ○ ○ ○ ○ ○
	.		○ ○ ○ ○ ○ ○

He says that 3.21 is less than 3.07 because it uses fewer counters. Explain why Richard is not correct.

3 Which image shows the smaller number? Fill in the boxes.

O	.	Tth	Hth
	.	○ ○ ○ ○ ○ ○	○ ○ ○ ○ ○ ○
	.		



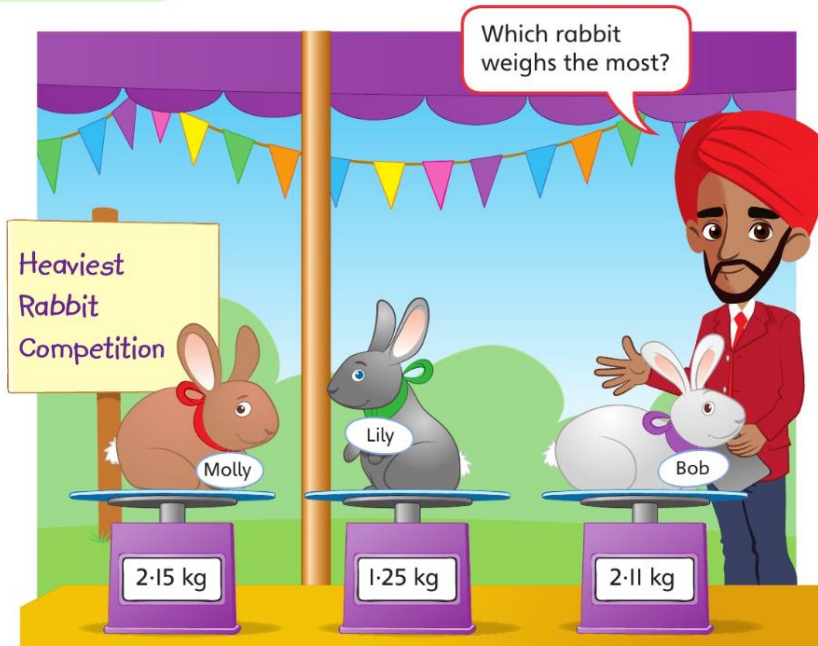
□ ○ □

4 Complete each sentence using <, > or =.

- a) 4.56 ○ 4.72
 - d) 3.18 ○ 3.12
 - b) 12.9 ○ 18.7
 - e) 26.39 ○ 27.49
 - c) 9.45 ○ 9.05
 - f) 120.26 ○ 120.26
- g) 3 tenths + 5 hundredths ○ 5 tenths and 4 hundredths

Ordering decimals

Discover



1 a) Order the rabbits from the lightest to the heaviest.

b) A fourth rabbit, Flopsy, is weighed.

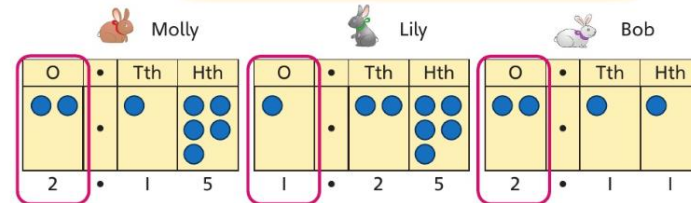
Flopsy is the second heaviest out of the four rabbits.

What might Flopsy's mass be?

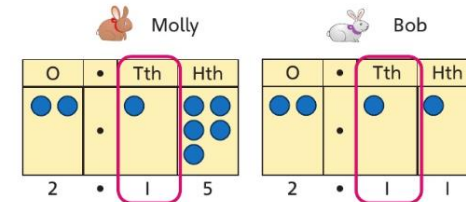
Share

I will put the numbers into a place value grid. To order the numbers, I need to start by looking at the largest place value.

a)



1.25 has 1 one and the others have 2 ones, so Lily is the lightest rabbit.



2.15 has 5 hundredths.
2.11 has 1 hundredth.
So 2.15 is the largest number.
Molly weighs the most.

Lily is the lightest, Bob is second lightest and Molly is the heaviest.

Next, I will compare the tenths. Both 2.15 and 2.11 have 1 tenth. So next I need to compare the hundredths.

Lightest → Heaviest



b) Flopsy's mass is between Bob's and Molly's, so between 2.11 kilograms and 2.15 kilograms.

Her mass must have hundredths that are bigger than 1 but smaller than 5. Flopsy's mass could be 2.12 kilograms, 2.13 kilograms or 2.14 kilograms.



Lesson 3

Ordering decimals

1 Put these numbers in order starting with the smallest.

7.2
6.7
7.9

O	•	Tth
7	•	2

O	•	Tth
6	•	7

O	•	Tth
7	•	9

Smallest , , Largest

2 a) Which place value grid shows the greatest number?

T	O	•	Tth	Hth
1	0	•	0	7

T	O	•	Tth	Hth
1	0	•	7	9

T	O	•	Tth	Hth
1	0	•	9	7

T	O	•	Tth	Hth
1	0	•	0	9

b) Order the numbers from largest to smallest.

> > >

3 a) Put the numbers in order starting with the smallest.

27.24 72.45 27.48 7.42

Smallest , , , Largest

b) Put the numbers in order starting with the largest.

4.53 4.59 5.94 5.49

Largest , , , Smallest

4 Which of these lists of numbers is not in ascending order?

- A 0.77, 0.78, 0.87 C 3.14, 3.41, 4.13, 4.31
 B 0.2, 0.3, 0.7 D 23.2, 23.1, 23.3

List _____ is not in ascending order.

5 Which child is incorrect? Explain your answer.

Reena: The numbers are in descending order.

Kate: The numbers are ordered most to least.

Aki: The numbers are ordered smallest to biggest.

Max: The numbers are ordered greatest to smallest.

Lesson 4

Rounding decimals

Discover

The amount of sugar is closer to 7 grams than 6 grams.

If I round it to the nearest whole number, there is 1 gram of salt.

Mo

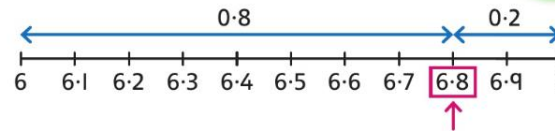


- 1 a) Round the amount of sugar to the nearest whole number.
Is Mo correct?
- b) What is the smallest possible amount of salt to one decimal place?

Share

- a) There are 6.8 grams of sugar in the cereal.

6.8 is between 6 and 7 so I drew a number line going up in tenths to help me round the number.

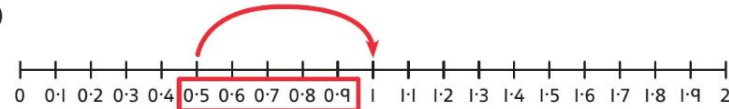


Look at the tenths. If there are 5 or more tenths, then we round up to the next whole number.

8 tenths is '5 or more', so 6.8 rounded to the nearest whole number is 7.

Mo is correct. The amount of sugar is closer to 7 grams than 6 grams.

- b)



To find the smallest possible amount of salt, you need to look at the numbers below 1.

To round to the nearest whole number, you need to look at the tenths which are 5 or more.

The smallest possible amount of salt is 0.5 grams.

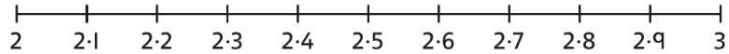
I know 1 is between 0 and 2. I drew a different number line to help me decide.



Lesson 4

Rounding decimals

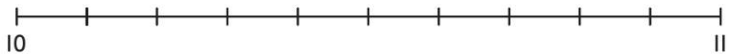
1 a) Round 2.7 to the nearest whole number.



2.7 is between and .

2.7 rounded to the nearest whole number is .

b) Round 10.3 to the nearest whole number.



10.3 is between and .

10.3 rounded to the nearest whole number is .

c) Round 28.3 to the nearest whole number.

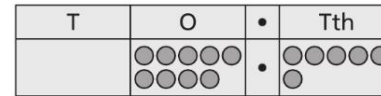


28.3 is between and .

28.3 rounded to the nearest whole number is .

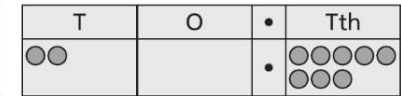
2 Round these numbers to the nearest whole number.

a)



a) rounded to the nearest whole number is .

b)



b) rounded to the nearest whole number is .

3 Round these numbers to the nearest whole number.

a) 5.4

e) 50.2

b) 12.9

f) 150.2

c) 65.3

g) 400.1

d) 0.4

h) 89.9

4 Which of these cannot be Mo's number?
Explain your answer.

55.2 54.8 54.5 55.5 55.1

I rounded a number to the nearest whole number. The answer is 55.



Mo
