



UNIT 4

THIS WORLD

LESSON B: LIFE IN NUMBERS





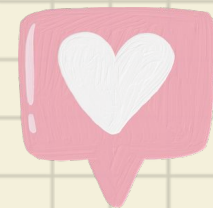
Lesson Goals

Students will be able to talk about numbers and amounts



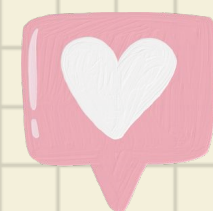
READING

What's in a
number?



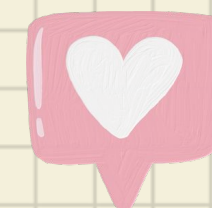
VOCABULARY

Amounts and
numbers



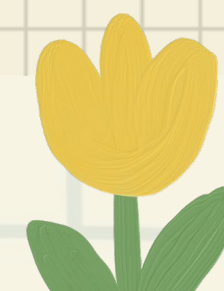
GRAMMAR

How much,
how many; how
+ adjective



SPEAKING

Talking about
amounts

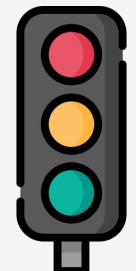
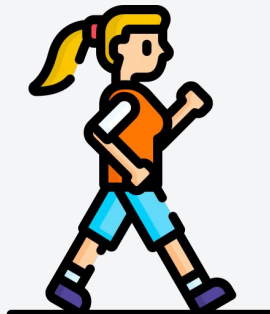




READING

READING

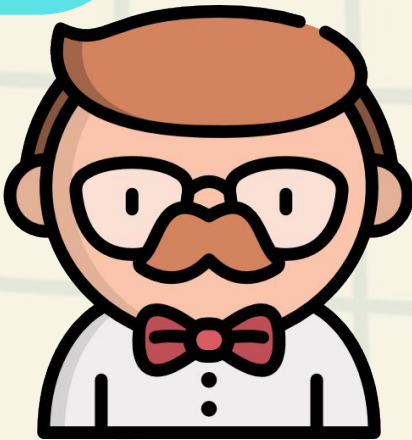
1A. Work in pairs and discuss the question. What is the connection between the things and the numbers in the box?

				
phone - 96	bath - 100	pizza - 350	traffic lights - 4	walking - 7,500



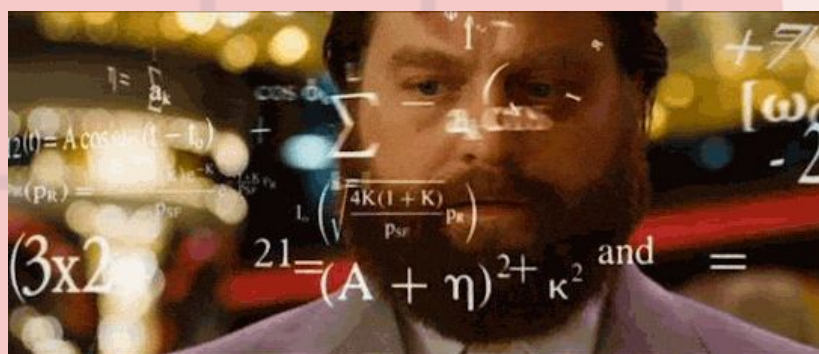
Maybe there are 96 different phone companies.

Or maybe we send 96 texts every day.



READING

1B. Read the article
and check your ideas.



SB p. 40

What's in **a number**?

Numbers are everywhere. They are in our lives, all around us. What are the numbers in your life?



phones

Many people say they can't live without their smartphone, and it's not surprising. In one day, we check our phones 96 times, and spend an average of 171 minutes doing something on the phone. Over 5 billion* people have a phone – and only about 4 billion have a toothbrush.



water

We drink it, we wash with it, we swim in it and we also use it to make things. So how much water do we use to make a pair of jeans, for example? Well, about 10,000 litres, but that's nothing. To make a car uses 148,000 litres. And next time you have a bath, remember that a bath uses about 100 litres of water, but a five-minute shower uses 37 to 94 litres.



food

The top kinds of food in the world are pasta, rice and – pizza, of course! Americans are big pizza eaters. So how many slices do they eat a day? Well, they eat 350 slices – not per day, but per second! And the average American eats 10.4 kilograms of pizza per year. But with frozen pizza, the Norwegians are number one, at 5 kilograms a year per person.



time

We know that we spend about one-third of our lives sleeping. But where does the rest of the time go? How long do you wait at a traffic light for example? One minute? Two minutes? Well, those minutes become hours, and in the end you spend about two days a year at red lights, or about four months in a lifetime.



walking

We walk from point A to point B, and we don't usually think about it. But if you're an average person, you usually take about 7,500 steps a day. So how far do you walk in a year? Well, usually it's between 2,100 and 2,400 kilometres. That's about the distance from Bangkok to Jakarta.

*1 billion = 1,000,000,000

READING

1C. Correct the mistake in each sentence.

Change one word.

1. We look at our phones 171 **minutes** a day
2. You need 148,000 litres of water to **make** a car
3. Americans eat 10.4 kilograms of **pizza** a year
4. Some people spend two days a year waiting at **red** lights
5. The average person walks the distance from Bangkok to **Jakarta** in one year

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VOCABULARY



VOCABULARY

amounts

1 - 9

This is where it all starts. Learn these, and the rest gets much easier.

1

one

2

two

3

three

4

four

5

five

6

six

7

seven

8

eight

9

nine

10 - 19

Do you see how many of them look just like the numbers from 1 to 9, plus “teen” at the end?

SIXTEEN (16)

=

SIX AND TEN (6 + 10)

10 ten	13 thir <u>teen</u>	16 six <u>teen</u>
11 eleven	14 four <u>teen</u>	17 seven <u>teen</u>
12 twelve	15 fif <u>teen</u>	18 eight <u>teen</u>
		19 nine <u>teen</u>

VOCABULARY

amounts

20 - 90

You can recognize these numbers because they end in "ty".

20 twenty.

60 sixty.

30 thirty.

70 seventy.

40 forty.

80 eighty.

50 fifty.

90 ninety.

21 - 99

Let's use the number **42** as an example.

42 is written with two numbers: **4** and **2**.

2 is in the **ones place**, so this just equals **2**.

Write this as **two**.

4 is in the **tens place**, so this is actually **40**. Write this as **forty**.

Write the two parts together: **forty-two**.

Don't forget the - sign between them.

VOCABULARY

amounts

100 - 900

Just write the number as usual and add "hundred".

100 ONE HUNDRED

200 TWO HUNDRED

300 THREE HUNDRED

400 FOUR HUNDRED

500 FIVE HUNDRED

600 SIX HUNDRED

700 SEVEN HUNDRED

800 EIGHT HUNDRED

900 NINE HUNDRED

no "s" at the end

100 - 999

Just write the **hundreds place** and then, **the rest of the number**

Examples:

120 one hundred and twenty

405 four hundred and five

556 five hundred and fifty-six

999 nine hundred and ninety-nine



VOCABULARY

amounts

You can say "one hundred" or "a hundred." Both are correct.

1,000

one thousand
a thousand

1,000,000

one million
a million

Use commas to separate long
rows of figures

3,000

three thousand

4,000,000

four million

Don't add "s" to "hundred,"
"thousand", or "million."

2,876

two thousand, eight hundred
and seventy-six

Add "and" before the last two
numbers to say numbers higher
than one hundred.

THREE POINT NINE SEVEN

3.97

YOU DON'T SAY
"THREE POINT
NINETY SEVEN"

DECIMAL POINTS ARE
WRITTEN IN ENGLISH USING
A PERIOD OR FULL STOP

VOCABULARY

amounts

FRACTIONS

You might see fractions written out as words. Aside from "half" and "quarter", the bottom number of a fraction is written or spoken as an ordinal number.

1/4 A QUARTER ✨

✨ **1/3 A THIRD**
 USE ORDINAL NUMBERS FOR THE BOTTOM OF THE FRACTION

1/2 A HALF ✨

✨ **3/5 THREE FIFTHS**
 USE CARDINAL NUMBERS FOR THE TOP OF THE FRACTION

1 1/2 ONE AND A HALF ✨
 USE "AND" TO LIKE A WHOLE NUMBER AND A FRACTION

DECIMALS

POINT FIVE

✨ **0.5**

ZERO POINT FIVE

NOUGHT POINT FIVE

ONE POINT SEVEN

✨ **1.7**

THREE POINT NINE SEVEN

3.97

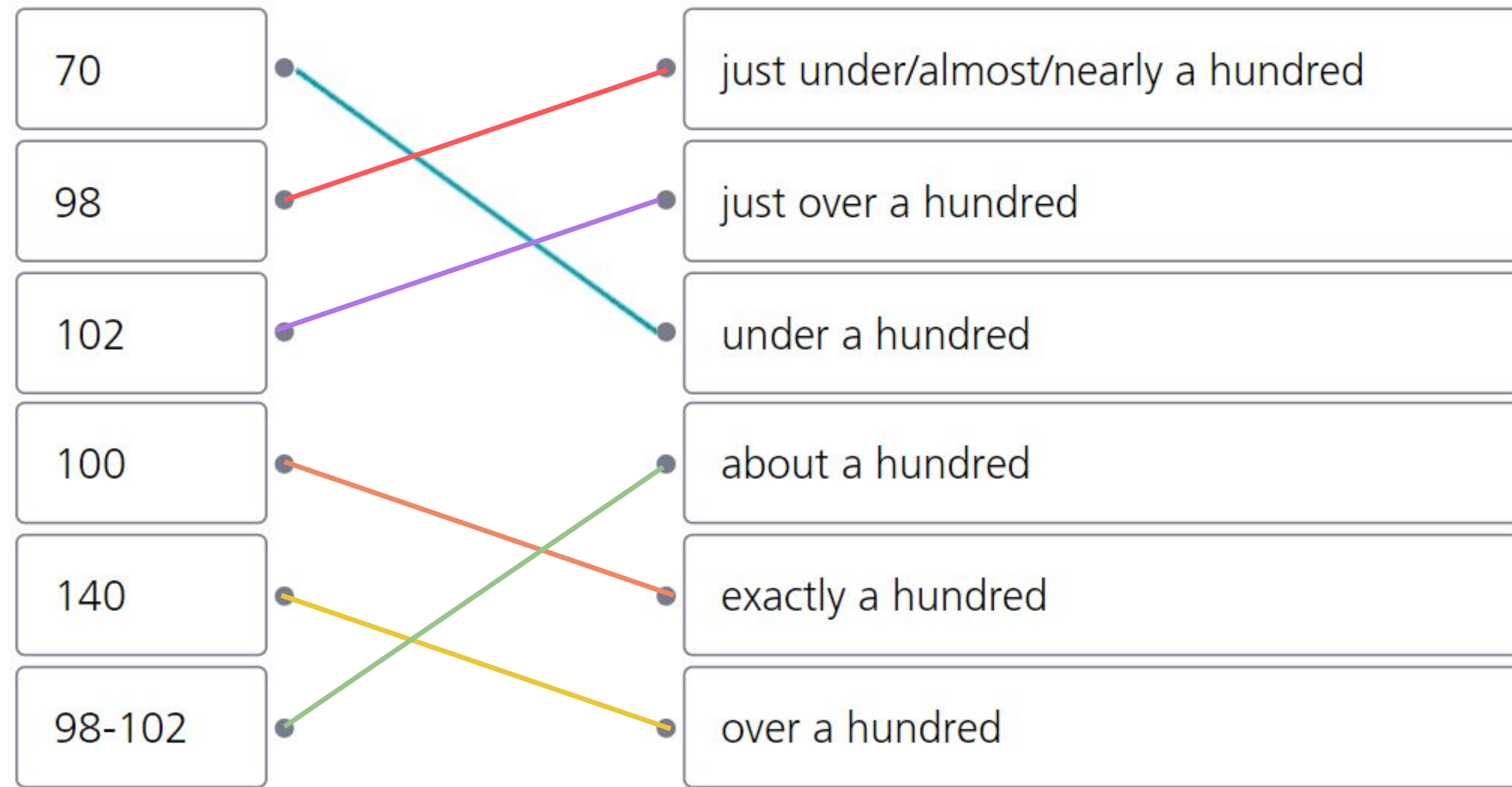
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VOCABULARY

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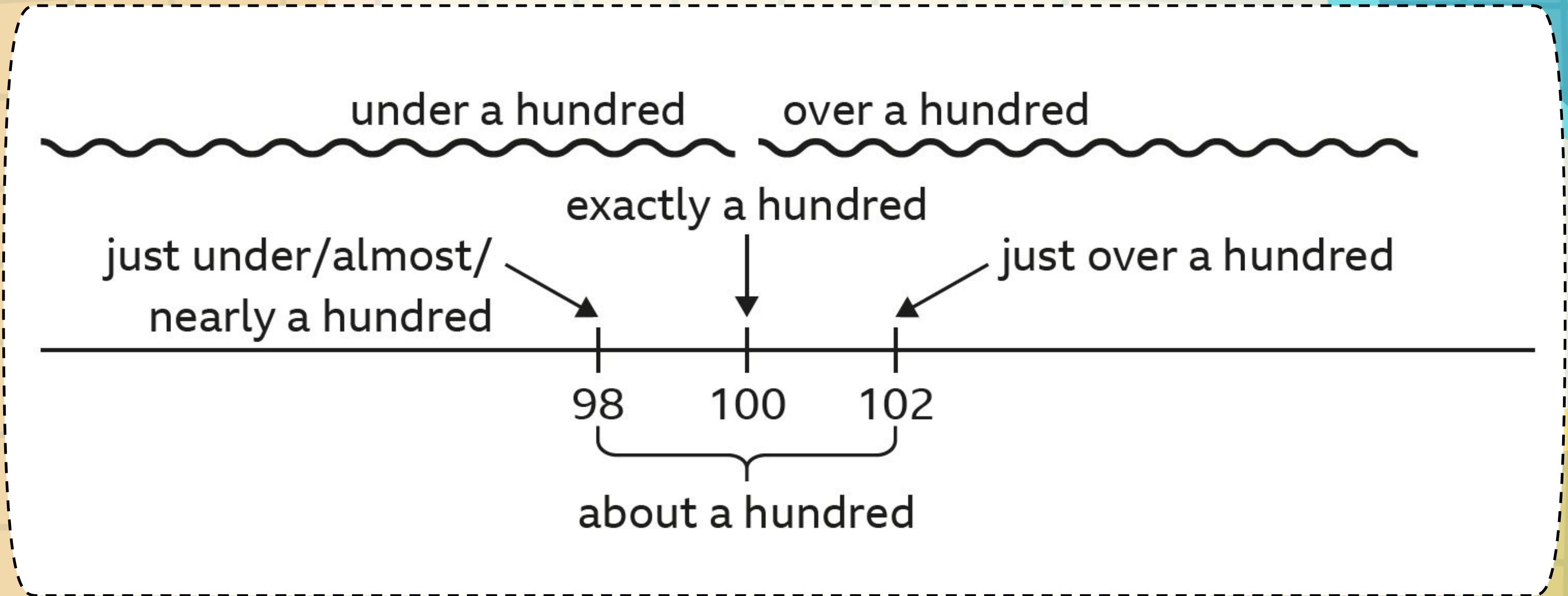
2A. Match the numbers with the words. Then work in pairs and check.



VOCABULARY

amounts

SB p. 40



2B. Choose the correct word(s) to complete the sentences. Use the article to help you.

1. A five-minute shower uses 100 litres of water.
2. We spend 170 minutes on the phone every day.
3. It takes 150,000 litres of water to make a car.
4. We check our phones 100 times a day.
5. One billion is 1,000,000,000.
6. We spend two days waiting at red lights every year.

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VOCABULARY

amounts

SB p. 40

2C. Work in pairs and discuss the question. Are the sentences true for you?

1. There were exactly twelve people in class in the last lesson.
2. I know just over 100 English words.
3. I have nearly 200 Instagram followers.
4. It's about one kilometre from here to my home.
5. My phone is almost two years old.
6. My last holiday was exactly six months ago.



VOCABULARY BANK

SB p. 138

amounts

1. Work in pairs. How do you say the numbers?

1. 272
2. 4,490
3. 3 1.4
4. 2.46
5. $\frac{1}{4}$
6. 555
7. 3,000,000
8. 1,000,000,000

amounts

2. Complete the numbers in Ex. 1. Write - if no word is necessary.
Then listen and check.

1. two hundred **and** seventy-two

2. four thousand - four hundred and ninety

3. one point four

4. two point four six

5. a quarter

6. five hundred and fifty-five

7. three million

8. one billion

amounts

3A. Work in pairs. How much do you know? Complete the sentences with the words in the box.

1. Mount Fuji is metres high.
2. The Lotte World Tower is metres tall.
3. The Greenland shark lives for years or more.
4. It's kilometres from New York to Los Angeles.
5. The average family in Poland has children.
In Honduras, the number is .
6. There are about bicycles in the world.
7. Just over people live in Mongolia.
8. The Sahara Desert covers over of Africa.

- three million
- two hundred and seventy-two
- five hundred and fifty-five
- one point four
- four thousand four hundred and ninety
- two point four six
- one billion
- a quarter
- three thousand seven hundred and seventy-six

3B. Listen and check.

GRAMMAR



GRAMMAR

SB p. 41

how much, how many; how + adjectives

4A. Complete the sentences with the phrases below. You do not need one of the phrases.

How many

How much

How big

How far

How long

1. **How much** water do we use to make a pair of jeans?
2. **How many** slices do they eat a day?
3. **How long** do you wait at a traffic light?
4. **How far** do you walk in a year?

4B. Work in pairs and answer the questions.

1. When do we use *How much* and when do we use *How many*?

How much: Uncountable nouns.

How many: Countable nouns.

2. What other adjectives can we use with *How*? Write five.

hot/cold, easy/difficult,
early/late, quiet/loud, hungry,
thirsty, near, fast, old, high, tall,
expensive

GRAMMAR

how much, how many; how + adjectives

SB p. 41

Examples:

1. How much ... drink every day.

2. How many ... in your class.

3. How much ... have.

4. How many ... give.

5. How many ... week.

HOW MUCH / HOW MANY

How Much	How Many
(uncountable) noun	(countable) noun

Examples:

- 1. How much water do you drink every day?
liters
- 2. How many students are in your class?
20
- 3. How much money do you have?
£10
- 4. How many days do you have?
5
- 5. How many days are there in a week?
7
- 6. How much time is left?
10
- 7. How many pages do you need?
10

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GRAMMAR

how much, how many; how + adjectives

We use questions with *How much* and *How many* to ask about amounts and numbers.

uncountable	countable
water	glasses of water
money	coins
traffic	cars
furniture	chairs
luggage	bags

GRAMMAR

how much, how many; how + adjectives

Questions

		noun	phrase
uncountable	How much	water	is there in the human body?
		money	do we need?
countable	How many	countries	are there in Europe?
		bags	have you got?

Answers

uncountable	A lot! Water is about sixty percent of the human body. Not much. About ten dollars.
countable	A lot! I think there are forty countries. Not many. Only three.

We often use *How much* with no noun to ask about the price or the weight of something.



How much is that phone?



It's sixty euros.



How much does your luggage weigh?



Twenty kilos.

GRAMMAR

how much, how many; how + adjectives

We can also ask questions with *How + adjective*.

	adjective	phrase
How	tall	is the Eiffel Tower?
	big	are the classes?
	high	are the Andes?
	old	are your children?
	long	do elephants live?*
	far	is your home from the station?**



*NOT
~~How long time?~~



** Also: How far is it from your home to the station?

GRAMMAR

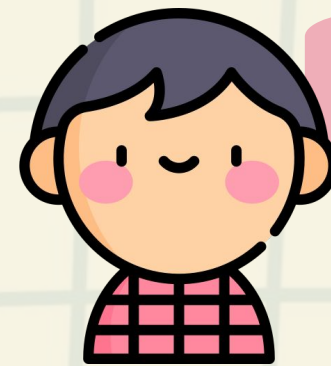
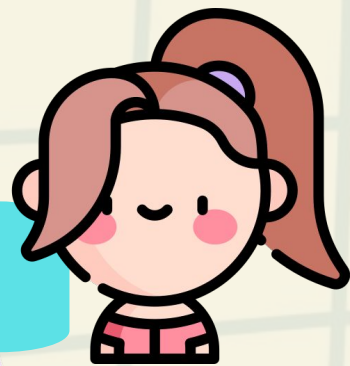
how much, how many; how + adjectives

We often use short answers: *Not much. Not many. Not far. Not long.*



How long do you usually wait for a bus?

Not long. Maybe five minutes.



How many people were there at the meeting?

Not many. Only three.



We use short questions to check information.



The lake is 235 metres deep.

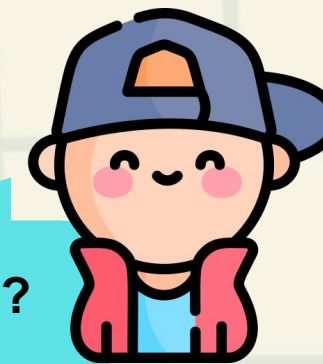
Sorry, could you say that again?

Sorry. **How deep?**



The class is fifteen euros an hour.

Sorry. **How much?**



GRAMMAR BANK

how much, how many; how + adjectives

1. Complete the conversation with the words below.

- | | |
|--------|--------|
| • far | • much |
| • how | • much |
| • how | • nice |
| • long | • not |
| • many | • old |
| • many | • tall |

SB p. 111

A: Your cat is ... big. How **(1)** much does she eat?

B: **(2)** Not much. Only about ten kilograms of food a day.

A: **(3)** Sorry, how much ?

B: Ten kilos a day.

A: That's a lot. And how **(4)** many litres of milk does she drink?

B: Not **(5)** many . Only three.

A: **(6)** How many? That's a lot!

B: Well, she weighs fifty kilos ...

A: Sorry, **(7)** how many?

B: Fifty kilos. And she's one metre tall.

A: How **(8)** tall ? That isn't possible!

B: And she's very sporty. She runs for an hour every day.

A: How **(9)** long ?

B: For about an hour. Maybe four kilometres.

A: How **(10)** far ? Four kilometres!

B: And she's not very young anymore.

B: How **(11)** old is she?

A: Forty years old. It's her birthday today.

B: How **(12)** nice ! Happy Birthday!

GRAMMAR BANK

how much, how many; how + adjectives

2. Read the answers. Then use the prompts and much, many or an adjective to make the questions.

1 Q: How / coffee / you / drink / every day?

A: A lot!

How much coffee do you drink every day?

2 Q: How / states / be / there / the USA

How many states are there in the USA ?

A: Fifty, I think.

3 Q: How / be / your parents

How old are your parents ?

A: Sixty and fifty-six.

4 Q: How / be / you

How tall are you ?

A: 1.7 metres.

5 Q: How / be / it / from the city centre / airport?

How far is it from the city centre to the airport ?

A: Ten kilometres.

6 Q: How / money / you / got

How much money have you got ?

A: Ten euros, for the cinema.

7 Q: How / be / your / last holiday

How long was your last holiday ?

A: It was two weeks.

8 Q: How / be / English / from your language

How different is English from your language ?

A: It's very different.

9 Q: How / brothers and sisters / you / got

How many brothers and sisters have you got ?

A: One brother but no sisters.

10 Q: How / traffic / be / there / this morning

How much traffic was there this morning ?

A: A lot! It was terrible.

SPEAKING



SPEAKING

Talking about amounts

SB p. 41

5C. Think about an average twenty-four hours in your life. Answer the questions.

1. How many hours do you usually sleep?
2. How much coffee or tea do you drink?
3. How much time do you study English?
4. How far do you walk?
5. How many text messages do you send?

5D. Work in pairs.

Student A: Ask a question from Ex 5C.

Student B: Answer. Student A: Check the answer. Use a short How ... ? question.

A: How many hours do you usually sleep?

B: About seven.

A: Sorry, how many?

B: About seven.

ANY QUESTIONS?



Thank
you!