

**sense****1. [sens] n****1. 1) чувство**

the five senses - пять чувств

sense of hearing [of sight, of smell, of taste, of touch] - слух [зрение, обоняние, вкус, осязание]

sixth sense - шестое чувство, интуиция

inner sense - внутренний голос; внутреннее ощущение

sense organs - органы чувств

dogs have an acute sense of smell - у собак острое обоняние /хорошее чутьё, нюх/

**2) ощущение, восприятие**

a sense of pain - ощущение боли

a sense of time - чувство времени

a sense of locality - чувство пространства

a high sense of duty - высокое чувство долга

aesthetic sense - эстетический вкус /-ое чутьё/

a sense of colour - понимание колорита, умение подбирать цвета

a keen sense of humour - тонкое чувство юмора

a high sense of one's importance - большое самомнение

to do smth. out of /from/ a sense of duty - делать что-л. из чувства долга

to have no sense of proportion - быть лишённым чувства меры

to lack all sense of beauty [of justice, of gratitude] - не иметь чувства прекрасного [справедливости, благодарности]

he has no stage sense - он совершенно не чувствует /не понимает законов/ сцены

**2. 1) pl сознание, рассудок**

in one's right senses - в здравом уме

are you in your right senses? - ты что - рехнулся?

to be out of one's senses - **разг.** свихнуться, спятить, быть не в своём уме

to recover/to regain/ one's senses - прийти в себя /в сознание/

to lose one's senses - сойти с ума

to take leave of one's senses - **разг.** сойти с ума, рехнуться

to be frightened out of one's senses - перепугаться до полусмерти /до обморока/; одуреть от страха

no man in his senses would have done so - так поступить мог только сумасшедший /лишённый здравого смысла/

**2) разум**

sense comes with age - разум приходит с годами

he has no sense - он не отличается благоразумием

to bring smb. to his senses - образумить кого-л.

to come to one's senses - образумиться, прийти в себя

to act against all sense - действовать /поступать/ неразумно

**3) здравый смысл (тж. common sense)**

a man of sense - разумный /здравомыслящий/ человек

to show good sense - проявить здравый смысл

to appeal to smb.'s good /common/ sense - взывать к чьему-л. здравому смыслу

to talk sense - говорить разумно /дельно/

there is no sense in doing this - нет смысла /не стоит/ делать это

to have too much sense to do smth., to have more sense than to do smth. - быть достаточно умным, чтобы сделать что-л. /не сделать чего-л./

to make use of one's senses - **разг.** шевелить мозгами, думать

use a little sense! - **разг.** шевели мозгами!, подумай!

he had the good sense to make a wise choice - у него хватило ума /здравого смысла/ сделать правильный выбор

**3. 1) значение, важность (чего-л.)**

to make sense - иметь смысл, быть нужным

this decision makes sense - это решение имеет смысл

it doesn't make sense, it makes no sense at all - это лишено всякого смысла; это вздор /чушь/

his attitude doesn't make sense - его отношение трудно понять

I cannot make out the sense of ... - не могу понять смысла (чего-л.)

**2) значение**

strict [literal] sense - точное [буквальное] значение

archaic sense - устаревшее значение

in the narrow [enlarged] sense of the word - в узком [в широком] значении этого слова

in the best sense of the term - в лучшем смысле этого слова

in a (certain) sense - в некотором смысле, до некоторой степени

in no sense - ни в каком смысле; ни в каком отношении

in no sense a genius - отнюдь не гений

in every sense - во всех отношениях

the marriage was in every sense happy - брак был во всех отношениях счастливым

in more senses than one - ≅ и притом во многих значениях этого слова; и притом во многих отношениях

the word has acquired a disparaging sense - это слово приобрело неодобрительный оттенок

**4. общее настроение, дух**

to take the sense of the meeting - определить настроение /мнение/ собрания (*путём голосования, опроса*); поставить вопрос на голосование

the sense of the conference was manifest - отношение конференции(к этому вопросу) было очевидным

5. **спец.** направление

sense of rotation [of current] - направление вращения [тока]

sense finder - определитель направления

◇ deprivation of senses = sensory deprivation

2. [sens] *v*

1. **чувствовать, осознавать**

to sense danger - чують опасность

he sensed our hostility - он почувствовал наше враждебное отношение

I had sensed as much - я так и думал, я это предвидел

2. **понимать, отдавать себе отчёт**

she fully sensed the danger of her position - она целиком отдавала себе отчёт в опасности своего положения

**sense**

Oxford Advanced Learners Dictionary 8th Ed.

**sense** [sense senses sensed sensing] **noun, verb** BrE [sens] <sup>ˈ</sup> NAmE [sens] <sup>ˈ</sup>

**noun**

**SIGHT/HEARING, ETC.**

1. **countable** one of the five powers (sight, hearing, smell, taste and touch) that your body uses to get information about the world around you

- the five senses
- Dogs have a keen (= strong) **sense of smell**.
- **the sense organs** (= eyes, ears, nose, etc.)
- I could hardly believe the evidence of my own senses (= what I could see, hear, etc.) .
- The mixture of sights, smells and sounds around her made her senses reel.

**see also** ↑sixth sense

**FEELING**

2. **countable** a feeling about sth important

- He felt an overwhelming sense of loss.
- a **strong sense of purpose/identity/duty, etc.**
- Helmets can give cyclists a **false sense of security** .
- I **had the sense that** he was worried about something.

**UNDERSTANDING/JUDGEMENT**

3. **singular** an understanding about sth; an ability to judge sth

- One of the most important things in a partner is a **sense of humour** (= the ability to find things funny or make people laugh) .
- He has a very good **sense of direction** (= finds the way to a place easily) .
- She has lost all sense of direction in her life.
- Always try to keep a **sense of proportion** (= of the relative importance of different things) .
- a **sense of rhythm/timing**
- Alex doesn't have any **dress sense** (= does not know which clothes look attractive) .

**see also** ↑road sense

4. **uncountable** good understanding and judgement; knowledge of what is sensible or practical behaviour

- You should **have the sense to** take advice when it is offered
- **There's no sense in** (= it is not sensible) worrying about it now.
- Can't you **talk sense** (= say sth sensible) ?
- There's a lot of sense in what Mary says .

**see also** ↑common sense, ↑good sense

**NORMAL STATE OF MIND**

5. **senses plural** a normal state of mind; the ability to think clearly

- If she threatens to leave, it should **bring him to his senses** .
- He waited for Dora to **come to her senses** and return.
- (old-fashioned) Are you **out of your senses** ? You'll be killed!
- (old-fashioned) Why does she want to marry him? She must have **taken leave of her senses** .

**MEANING**

6. **countable** the meaning that a word or phrase has; a way of understanding sth

- The word 'love' is used in different senses by different people.
- education in its broadest sense
- He was a true friend, **in every sense of the word** (= in every possible way) .
- **In a sense** (= in one way) it doesn't matter any more.
- **In some senses** (= in one or more ways) the criticisms were justified.
- The medical care was excellent, in a technical sense.
- (formal) **In no sense** can the issue be said to be resolved
- There is a sense in which we are all to blame for the tragedy.

**more at** take leave of your senses **at** ↑leave <sub>n</sub>.

### Word Origin:

late Middle English (as a noun in the sense 'meaning'): from Latin *sensus* 'faculty of feeling, thought, meaning', from *sentire* 'feel'. The verb dates from the mid 16th cent.

### Thesaurus:

#### sense noun

##### 1. C (often followed by **of**)

- He felt a strong sense of loss.

**feeling** • • **impression** • • **idea** • |especially written **sensation** •

a **strong** sense/feeling/impression/idea/sensation

a/an **wonderful/warm/uncomfortable** sense/feeling/sensation

**have** the sense/feeling/impression/sensation **that...**

**get/give sb/leave sb with/convey** a/an sense/feeling/impression/idea

##### 2. sing.

- Babies have an innate sense of rhythm.

**understanding** • • **conception** • • **grasp** • • **comprehension** • • **appreciation** •

sb's sense/understanding/conception/grasp/comprehension/appreciation **of** sth

a/an sense/understanding/conception/appreciation **that...**

**have** a/an sense/understanding/conception/grasp/comprehension/appreciation

##### 3.

- You should have the sense to take advice.

**common sense** • • **realism** • • **sanity** • |sometimes **ironic wisdom** • |formal **pragmatism** •

**Opp: nonsense**

sense/realism/wisdom/pragmatism **in** (doing) sth

**have** the sense/common sense/wisdom **to do sth**

**show** (great) sense/common sense/wisdom

##### 4. C

- The word 'love' is used in different senses by different people.

**meaning** • • **significance** •

the **original/exact/precise/general/true** sense/meaning/significance

the **accepted/narrow/literal/metaphorical/legal/technical** sense/meaning of sth

**have** a sense/meaning/significance

**Sense or meaning?** **Sense** is used more in technical or formal contexts.

### Which Word?:

#### sensible / sensitive

**Sensible** and **sensitive** are connected with two different meanings of sense.

**Sensible** refers to your ability to make good judgements: ▫ She gave me some very sensible advice. ◇ ▫ It wasn't very sensible to go out on your own so late at night.

**Sensitive** refers to how easily you react to things and how much you are aware of things or other people: ▫ a soap for sensitive skin ◇ ▫ This movie may upset a sensitive child.

### Example Bank:

- Art should appeal to the senses rather than the intellect.
- Clubs try to create a sense of community.
- Common sense tells me I should get more sleep.
- Family-friendly policies make good business sense.
- Have you taken leave of your senses?
- He and I were no longer friends in any meaningful sense.
- He at least had the sense to call the police.
- He felt a deep sense of relief after the phone call.
- He has a sixth sense when it comes to fashion.
- He has an acute sense of smell.
- He has no dress sense.
- He lacked a clear sense of direction.
- He seems to have lost his sense of reality.
- Her senses reeled as she fought for consciousness.
- I am not writing poetry in the traditional sense.
- I don't have any friends in the usual sense of the word.
- I experienced a new sense of freedom.
- I got the sense that she wasn't very pleased to see us.
- I have absolutely no fashion sense.
- I tried to make him see sense, but he just wouldn't listen.
- I wish my daughter would learn some sense.
- I'm going to try and knock some sense into him.
- If you can't talk sense, I'm leaving!
- If you had an ounce of sense, you'd never have agreed to help him.
- In a certain sense, justice was done.
- In a sense, she's right.

- In a very real sense, post-war repression was the continuation of the war.
- It all makes perfect sense.
- It makes little sense to discuss this now.
- Many felt a renewed sense of purpose in the nation's war effort
- Meg is incredibly intelligent but she lacks common sense.
- No one in their right senses would give him the job!
- Patti had a nagging sense of foreboding
- Raccoons have a highly developed sense of touch.
- Readers gain a real sense of what life was like in the camp.
- She had a great sense of style.
- She lost her sense of hearing early in life.
- That sentence doesn't make sense.
- That word has three senses.
- The conviction may bring a sense of closure.
- The music conveyed a sense of loss.
- The novel is about education in its widest sense.
- The public has been lulled into a false sense of security.
- There's a lot of sense in what he's saying.
- There's no sense in going home before the concert.
- These results seem to make intuitive sense.
- These teachings do not constitute a religion in the conventional sense.
- They feel a pervasive sense of loss and longing.
- This is a tragedy in the fullest sense of the word.
- This paragraph doesn't make sense.
- We felt a profound sense of alienation from Western culture.
- We have a shared sense of community.
- We'll try and talk a little sense into her.
- When she came to, her senses told her she was lying on a beach.
- a good sense of direction/rhythm/timing
- a natural sense of justice
- a palpable sense of danger
- a vague sense of unease
- Always try to keep a sense of proportion.
- Babies seem to have an innate sense of rhythm.
- Doesn't she have any sense of guilt about what she did?
- Ed doesn't have any dress sense at all!
- He was a true friend, in every sense of the word.
- He was respected for his humour and his good sense.
- Helmets can give cyclists a false sense of security.
- How could you even think of doing such a thing? Have some sense!
- I developed a certain road sense during my years as a cyclist.
- I wish you'd talk sense.
- I've got a hopeless sense of direction.
- In a sense it doesn't matter any more.
- In no sense can the issue be said to be resolved
- In some senses the criticisms were justified.
- One of the most important things in a partner is a sense of humour.
- She always had a strong sense of personal responsibility.
- Some people have more money than sense.
- The word 'love' is used in different senses by different people.
- There's no sense in worrying about it now.
- This was education in its broadest sense.
- You should have the sense to take advice when it's offered

Idioms: ↑make sense ▪ ↑make sense of something ▪ ↑see sense ▪ ↑sense of occasion ▪ ↑talk some sense into somebody

verb (not used in the progressive tenses)

## BECOME AWARE

1. to become aware of sth even though you cannot see it, hear it, etc

- ~ **sth** Sensing danger, they started to run.
- I sensed a note of tension in his voice.
- ~ **(that)**... Lisa sensed that he did not believe her.
- Thomas, she sensed, could convince anyone of anything.
- ~ **sb/sth doing sth** He sensed someone moving around behind him.
- ~ **sb/sth do sth** He sensed something move in the bushes.
- ~ **how, what, etc...** She could sense how nervous he was.

## OF MACHINE

2. ~ **sth** to discover and record sth

- equipment that senses the presence of toxic gases

### Verb forms:

verb forms	
present simple	
I / you / we /they	sense
	BrE /sens/
	NAme /sens/
he / she /it	senses
	BrE /sensɪz/
	NAme /sensɪz/
past simple, past participle	sensed
	BrE /sensɪt/
	NAme /sensɪt/

### Word Origin:

late Middle English (as a noun in the sense 'meaning'): from Latin **sensus** 'faculty of feeling, thought, meaning', from **sentire** 'feel'. The verb dates from the mid 16th cent.

### Example Bank:

- He clearly sensed that some points could be scored.
- I immediately sensed something was wrong.
- I sensed quite strongly that she was angry with me.
- Maybe she could just sense what I needed.
- Sandra could almost sense the tension in the air.
- She apparently sensed defeat was inevitable.
- She sensed the terrible pain he was feeling.

## sense

Longman DOCE 5th Ed. (En-En)

### I. **sense**<sup>1</sup> **S1 W1** /sens/ *BrE* <sup>1</sup> *AmE* <sup>1</sup> *noun*

[**Word Family**: adjective: ↑sensible, ↑insensible, ↑senseless, ↑sensitive ≠ ↑insensitive, ↑sensory, ↑nonsensical, ↑insensate; noun: ↑sense ≠ ↑nonsense, ↑sensitivity ≠ ↑insensitivity, ↑senselessness, ↑sensitization, ↑sensor; adverb: ↑sensibly, ↑senselessly, ↑sensitivity ≠ ↑insensitivity; verb: ↑sense, ↑sensitize]

[**Date**: 1300-1400; **Language**: Old French; **Origin**: sens, from Latin *sensus*, from *sentire* 'to feel']

#### 1. [countable] a feeling about something

##### sense of

- " Afterwards, I felt a great sense of relief.
- " A sense of panic has spread over the country.
- " Employees need the sense of being appreciated.

##### with a sense of something

- " He looked around the room with a sense of achievement.

##### sense that

- " I had the sense that he was lying.

#### 2. [singular] the ability to understand or judge something

**sense of humour** *British English* **sense of humor** *American English* (=the ability to understand and enjoy things that are funny)

- " I like Pam – she has a really good sense of humour.

**sense of direction** (=the ability to judge which way you should be going, or what your aims should be)

- " It was dark and he had completely lost his sense of direction.

**sense of proportion** (=the ability to judge what is important and what is not important)

- " Let's keep a sense of proportion, and not rush to any hasty conclusions.

**sense of justice/fairness**

- " Kids have a natural sense of justice.

**dress/clothes sense** (=the ability to judge which clothes look good)

#### 3. [countable] one of the five natural powers of sight, hearing, feeling, taste, and smell, that give us information about the things around us

**sense of smell/taste/touch etc**

- " She has a good sense of smell.
- " Cats have a very acute sense of hearing (=very good, so that they can hear even the smallest sound).
- " Combinations of flavors, textures, and color that can delight the senses.
- " the five senses (=all of the senses) ⇒ ↑sixth sense

#### 4. [uncountable] when someone makes sensible or practical decisions, or behaves in a sensible practical way

**have the sense to do something** (=behave in a sensible way and do what is best in that situation)

- " You should have had the sense to turn off the electricity first.

**there is no sense in (doing) something spoken** (=it is not sensible to do something)

- " There's no sense in getting upset about it now.

**see sense** (=realize what is the sensible thing to do)

- " I wish the politicians would see sense and stop the war.

**talk/knock some sense into somebody** (=try to make someone behave in a more sensible way) ⇒ ↑common sense

#### 5. **make sense**



a) to have a clear meaning and be easy to understand:

Read this and tell me if it makes sense.

b) to be a sensible thing to do

**it makes sense (for somebody) to do something**

It makes sense to save money while you can.

Would it make sense for the city authorities to further restrict parking?

c) if something makes sense, there seems to be a good reason or explanation for it:

Why did she do a thing like that? It doesn't seem to make sense.

6. **make (some) sense of something** to understand something, especially something difficult or complicated:

Can you make any sense of this article?

7. **[countable]** the meaning of a word, sentence, phrase etc:

The word 'record' has several different senses.

Any alteration would spoil the sense of the entire poem.

8. **[countable]** a way in which something can be true or real

**in a sense/in one sense/in some senses etc** (=in one way, in some ways etc)

What he says is right, in a sense.

The hotel was in no sense (=not at all) comfortable.

George was a big man in every sense of the word (=in every way).

This is true in a general sense.

Communication, in any real sense (=of any real kind), was extremely limited.

**in a (very) real sense** (=used to emphasize that a statement or description is true)

A head of a school is a manager in a very real sense.

9. **your/her etc senses** someone's ability to think clearly and behave sensibly – used in some expressions when you think that someone has lost this ability

**come to your senses** (=to start to think clearly and behave sensibly again)

One day he'll come to his senses and see what a fool he's been.

See if you can bring her to her senses (=make someone think clearly and behave sensibly).

**be out of your senses** (=have lost the ability to think clearly and behave sensibly)

Are you completely out of your senses? ⇒ **take leave of your senses** at ↑leave<sup>2</sup>(6)

10. **talk sense spoken** to say things that are reasonable or sensible – often used when you think someone has just said something silly:

Talk sense! There's no way we can afford a new car!

11. **regain your senses old-fashioned** to stop feeling ↑faint or slightly sick

...

## COLLOCATIONS (for Meaning 1)

### ■ adjectives

- **a strong/great sense of something** He had a strong sense of responsibility.
- **a real sense of something** (=a strong feeling) Children need to feel a real sense of belonging.
- **a deep sense of something** (=a very strong feeling) He felt a deep sense of disappointment.
- **a growing sense of something** (=becoming stronger) She looked around with a growing sense of unease.
- **a vague/slight sense of something** (=not very strong) There was a slight sense of embarrassment.

### ■ verbs

- **feel/have a sense of something** I felt a great sense of pride.
- **give somebody a sense of something** The job gave her a sense of control over her life.
- **convey a sense of something** We want to convey our sense of excitement to the audience.

### ■ phrases

- **a sense of relief/panic/guilt etc** We reached the medical centre with a sense of relief.
- **a sense of purpose/direction** (=a feeling that you know what you are trying to achieve) Becoming a mother had given her a new sense of purpose.
- **a sense of urgency** (=a feeling that something is urgent) The rescuers felt a real sense of urgency now.
- **a sense of responsibility/duty** (=a feeling that you must do something because it is right) Parents try to give their children a sense of responsibility.
- **a sense of loss** (=a feeling of sadness for someone or something you no longer have) Many women experience a sense of loss when their children leave home.
- **a sense of achievement/satisfaction** (=a feeling that you have achieved something good) Even a small success gives a sense of achievement.
- **a sense of security** (=a feeling that you are safe) A lack of trust in the parents can undermine the child's sense of security at home.
- **a false sense of security** (=a feeling that you are safe, which is not actually true) They were lulled into a false sense of security.
- **a sense of identity** (=a feeling of knowing who you are and how you belong to a community) Change can threaten our fragile sense of identity.
- **a sense of belonging** (=a feeling that you belong to a group) The organization tries to foster a sense of belonging through these social events.
- **a sense of occasion** (=a feeling that an event is special or important) It was a marvellous day and there was a real sense of occasion.

...

## COLLOCATIONS (for Meaning 2)

### ■ phrases

- a sense of humour *British English, a sense of humor American English (=the ability to laugh and enjoy things that are funny)* A good teacher needs a sense of humour.
- a sense of fun (=the ability to enjoy yourself and make things fun) What I liked about Maria was her sense of fun.
- a sense of direction (=the ability to judge which way you should be going) The place was completely dark and I lost all sense of direction.
- a sense of proportion (=the ability to judge how important or unimportant something is) It's important to keep a sense of proportion.
- a sense of timing (=the ability to choose the right moment to do or say something) He told the story with an exquisite sense of timing.
- a sense of justice/fairness I appealed to her sense of justice.

### ■ ADJECTIVES/NOUN + sense

- a good/great sense of something He is a popular boy with a good sense of humour.
- a natural sense of something (=a natural ability) She did not have a natural sense of direction.
- a keen sense of something (=a good ability to judge something) As a lawyer, he had a keen sense of the value of political connections.
- dress/clothes sense (=an ability to choose clothes well) Her dress sense was faultless.
- business sense (=an ability to make good decisions in business) Few young people have much business sense.

### ■ verbs

- have a sense of something She seems to have a great sense of the right thing to say.
- lose your sense of something Come on! Have you lost your sense of humour?
- lose all sense of something He seemed to have lost all sense of proportion.
- keep/retain a sense of something Throughout it all she retained her sense of fun.

...

## COLLOCATIONS (for Meaning 3)

### ■ phrases

- a sense of smell/taste/touch etc We lose some of the sense of taste as we get older.
- the five senses We use all five senses to explore the world around us.

### ■ adjectives

- a good/keen/acute sense of something Pigs have a keen sense of smell.
- a poor sense of something Owls and other predatory birds have a poor sense of smell.

### ■ verbs

- have a sense of something You have to have a good sense of hearing to play the violin.
- lose your sense of something I think I'm losing my sense of smell.

...

## COLLOCATIONS (for Meaning 8)

### ■ phrases

- in a sense (also in one sense) The results are not terribly surprising in one sense.
- in some sense (also in some senses) George was perfectly right in some senses.
- in every sense He is lucky in every sense.
- in no sense (=not at all) This is in no sense a criticism.
- in a general/broad sense In a general sense, a rapid rate of technological change creates uncertainty.
- in a (very) real sense (=used to emphasise that a statement or description is true) The truth is that in a very real sense most families in Britain are not poor.
- in a literal sense (=according to the actual or physical meaning of words) I wasn't suggesting that in a literal sense.

## II. sense<sup>2</sup> BrE<sup>\*</sup> AmE<sup>\*</sup> verb [transitive]

[Word Family: adjective: ↑sensible, ↑insensible, ↑senseless, ↑sensitive ≠ ↑insensitive, ↑sensory, ↑nonsensical, ↑insensate; noun: ↑sense ≠ ↑nonsense, ↑sensitivity ≠ ↑insensitivity, ↑sensitization, ↑sensor; adverb: ↑sensibly, ↑senselessly, ↑sensitively ≠ ↑insensitively; verb: ↑sense, ↑sensitize]

1. if you sense something, you feel that it exists or is true, without being told or having proof:

\* Perhaps he sensed your distrust.

sense (that)

\* I could sense that something was wrong.

sense what/how/who etc

\* Hugo had already sensed how unhappy she was.

sense danger/trouble

\* If a prairie dog senses danger, he whistles a warning.

2. if a machine senses something, it discovers and records it:

\* an electronic device used for sensing intruders

...

## COLLOCATIONS (for Meaning 2)

### ■ nouns

- sense danger He stiffened, sensing danger.
- sense trouble The other women, sensing trouble, immediately began to edge away.
- sense the tension I could sense the tension in the court as the jury returned.
- sense sb's presence (=be aware that someone is there) He sensed her presence, but didn't look at her.
- sense sb's fear/excitement /reluctance etc Luke paused and she sensed his reluctance to continue.
- sense sb's mood (=be aware of how someone is feeling) He instinctively sensed her mood and changed the subject.

**sense**12500 **436**<sup>MCW</sup>15000 **437**<sup>COCA</sup>RANGE: **1k** SENSE 112083

sense 100239

senseless 1006

senselessness 60

senses 5139

sensing 2207

sensings 0

sensed 3432

## COCA 500k Unlemmatized

47672 **422**<sup>95971</sup> *nn1*2228 **11320**<sup>2595</sup> *vvi*1401 **15818**<sup>1568</sup> *vv0*71 **89349**<sup>73</sup> *nnu*19 **180953**<sup>19</sup> *jj*5 **391029**<sup>5</sup> *pph1*4 **425500**<sup>4</sup> *ii*3 **467257**<sup>4</sup> *np1*