

Content Alignment Tool

Contents

Content Alignment Tool Questionnaire	2
Select a questionnaire: Mathematics / Reading	3
Mathematics - Questions	3
Mathematics – Grade 2/3	5
Mathematics – End of primary	8
Mathematics – End of lower secondary	11
Mathematics - Scoring Rules	14
Reading - Questions	15
Reading – Grade 2/3	17
Reading – End of primary	18
Reading – End of lower secondary	20
Reading - Scoring Rules	21

Content Alignment Tool Questionnaire

The UIS invites you to complete the online UIS Content alignment tool (CAT) questionnaires on reading and mathematics.

Each questionnaire, once completed, will provide you with valuable feedback on the level of alignment of the content of your national learning assessment with respect to the UIS Global content framework in [Reading](#) and/or [Mathematics](#).

Before you start, please identify the relevant national learning assessment that your country would use to report on SDG indicator 4.1.1.

The questionnaires ask questions related to the mathematics and reading constructs on which your national assessment evaluates students. They are independent and can be completed individually by different respondents.

It is strongly recommended to have a copy of the national assessment for which the questionnaire is being completed. If you are not a mathematics and/or reading (or language arts) educator, you may need a specialist to help you answer the questions.

The questionnaires can be completed more than once and the tool will consider the latest submitted answers.

Should you have any questions regarding this tool, or require support, please do not hesitate to contact us by email at uis.lo@unesco.org.

Select a questionnaire: Mathematics / Reading

Mathematics - Questions

Registration - Please provide your contact information:

Select a Country	
Full name	
Organization	
Organization unit	
Function	
Email address	
Phone number	

Does your country conduct a national learning assessment covering Reading?	Yes (Q3) No (End)
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Please complete the following information

Full name of the assessment in national or official language																												
Full name of the assessment in English																												
Administration year (<i>please select all that apply</i>)																												
Target grade (<i>select all that apply</i>)	<table> <tr> <td>ISCED 1:</td> <td>ISCED 2:</td> <td>ISCED 3:</td> </tr> <tr> <td>Grade 1</td> <td>Grade 1</td> <td>Grade 1</td> </tr> <tr> <td>Grade 2</td> <td>Grade 2</td> <td>Grade 2</td> </tr> <tr> <td>Grade 3</td> <td>Grade 3</td> <td>Grade 3</td> </tr> <tr> <td>Grade 4</td> <td>Grade 4</td> <td>Grade 4</td> </tr> <tr> <td>Grade 5</td> <td>Grade 5</td> <td>Grade 5</td> </tr> <tr> <td>Grade 6</td> <td>Grade 6</td> <td></td> </tr> <tr> <td>Grade 7</td> <td></td> <td></td> </tr> <tr> <td>Grade 8</td> <td></td> <td></td> </tr> </table>	ISCED 1:	ISCED 2:	ISCED 3:	Grade 1	Grade 1	Grade 1	Grade 2	Grade 2	Grade 2	Grade 3	Grade 3	Grade 3	Grade 4	Grade 4	Grade 4	Grade 5	Grade 5	Grade 5	Grade 6	Grade 6		Grade 7			Grade 8		
ISCED 1:	ISCED 2:	ISCED 3:																										
Grade 1	Grade 1	Grade 1																										
Grade 2	Grade 2	Grade 2																										
Grade 3	Grade 3	Grade 3																										
Grade 4	Grade 4	Grade 4																										
Grade 5	Grade 5	Grade 5																										
Grade 6	Grade 6																											
Grade 7																												
Grade 8																												
Measurement Point (<i>select all that apply</i>)	Grade 2/3 End of primary End of lower secondary																											
Data source	Census																											

	Sample
Assessment scale	National Regional Provincial Other

Instructions

The following questions are specific to the content of your national assessment at each measurement point (grade 2/3, end of primary, end of lower secondary).

The answers to the questions could be either “yes” or “no”. Each “yes” response is assigned a 1; each “no” response is assigned a 0. The percent of 1s forms the basis for scoring the questionnaire.

Once all the questions for a given measurement point are answered, the tool will display the scoring and coverage of the content of your national assessment for that measurement point.

At the end of the questionnaire, scoring and coverage of the content of other countries will be also displayed.

Mathematics – Grade 2/3

1. Please identify whether this national assessment evaluates the following domain

<u>Number Knowledge</u> Understanding and using pre-number ideas (e.g., counting), symbols, and different number systems (e.g., whole numbers, fractions)	Yes (Q1.1) No (Q2)
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1.1. Please identify whether this national assessment evaluates each of the following mathematics constructs

<u>Number sense</u> Counting concrete objects, number words, number games, rhymes	Yes No
<u>Operations with objects</u> Grouping and taking away concrete objects from a collection of objects	Yes No
<u>Natural numbers</u> Counting and operations with positive integers including zero (i.e., 0, 1, 2, 3, ...)	Yes No
<u>Fractions</u> Counting and operations with rational numbers expressed as a/b where a is the numerator and b is the denominator; b does not equal 0	Yes No
<u>Decimals</u> Counting and operations with real numbers expressed in base ten notation	Yes No

2. Please identify whether this national assessment evaluates the following domain

<u>Measurement</u> Understanding and using non-standard units (e.g., pencil lengths, teacup amounts) and standard units (e.g., inches, grams, litres) to measure various quantities	Yes (Q2.1) No (Q3)
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2.1. Please identify whether this national assessment evaluates each of the following mathematics constructs

<u>Shapes and objects</u>	Yes No
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Measuring quantities in the world using locally derived units (e.g., book-lengths, spoon volumes, stone-weights)	
<u>Daily Living</u> Measuring quantities in your daily life using locally derived units (e.g., estimating time duration)	Yes No
<u>Shapes and objects</u> Measuring quantities in the world using established measurement units (e.g., inches, cm, km, L, gallons, lbs., kg)	Yes No
<u>Daily Living</u> Measuring quantities in daily life using established units (e.g., time in months, days, hours, mins; currency; temperature)	Yes No

3. Please identify whether this national assessment evaluates the following domain

<u>Statistics and Probability</u> Understanding and using good data management procedures (e.g., organizing, representing, interpreting) to conduct investigations; using chance and probability experiments (e.g., coin tosses) to explore mathematics of probability	Yes (Q3.1) No (Q4)
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3.1. Please identify whether this national assessment evaluates each of the following mathematics constructs

<u>Data management</u> Creating surveys and questionnaires, administering them, collecting data, summarizing and representing data, interpreting results	Yes No
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4. Please identify whether this national assessment evaluates the following domain

<u>Geometry</u> Understanding and using properties of 2-D shapes (e.g., lines, triangles) and 3-D objects (e.g., cubes, spheres), completing transformations (e.g., rotations, reflections), and working in the Cartesian plane (e.g., plotting points)	Yes (Q4.1) No (Q5)
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4.1. Please identify whether this national assessment evaluates each of the following mathematics constructs

<u>Constructions</u>	Yes No
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Constructing lines, angles, plane figures, 3-D objects; investigating symmetry and congruence	
<u>Properties</u> Recognize and use properties of lines and angles, plane figures, 3-D objects, symmetry and congruence and similarity	Yes No
<u>Position and direction</u> Translating, rotating, reflecting and dilatating various geometric shapes and objects	Yes No
<u>Properties of space</u> Locating geometric shapes and objects in the Cartesian plane	Yes No

5. Please identify whether this national assessment evaluates the following domain

<u>Algebra (early pre-algebra constructs)</u> understanding and using non-numerical patterns (e.g., patterns observed in the environment), numerical patterns (e.g., sequences)	Yes (Q5.1) No
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5.1. Please identify whether this national assessment evaluates each of the following mathematics constructs

<u>Relations</u> Investigate patterns in number sequences, investigate properties of algebraic expressions	Yes No
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Mathematics – End of primary

1. Please identify whether this national assessment evaluates the following domain

<u>Number Knowledge</u> Understanding and using pre-number ideas (e.g., counting), symbols, and different number systems (e.g., whole numbers, fractions)	Yes (Q1.1) No (Q2)
--	-----------------------

1.1. Please identify whether this national assessment evaluates each of the following mathematics constructs

<u>Operations with objects</u> Grouping and taking away concrete objects from a collection of objects	Yes No
<u>Natural numbers</u> Counting and operations with positive integers including zero (i.e., 0, 1, 2, 3, ...)	Yes No
<u>Fractions</u> Counting and operations with rational numbers expressed as a/b where a is the numerator and b is the denominator; b does not equal 0	Yes No
<u>Decimals</u> Counting and operations with real numbers expressed in base ten notation	Yes No

2. Please identify whether this national assessment evaluates the following domain

<u>Measurement</u> Understanding and using non-standard units (e.g., pencil lengths, teacup amounts) and standard units (e.g., inches, grams, litres) to measure various quantities	Yes (Q2.1) No (Q3)
--	-----------------------

2.1. Please identify whether this national assessment evaluates each of the following mathematics constructs

<u>Shapes and objects</u> Measuring quantities in the world using established measurement units (e.g., inches, cm, km, L, gallons, lbs., kg)	Yes No
<u>Daily Living</u>	Yes No

Measuring quantities in daily life using established units (e.g., time in months, days, hours, mins; currency; temperature)	
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3. Please identify whether this national assessment evaluates the following domain

<u>Statistics and Probability</u> Understanding and using good data management procedures (e.g., organizing, representing, interpreting) to conduct investigations; using chance and probability experiments (e.g., coin tosses) to explore mathematics of probability	Yes (Q3.1) No (Q4)
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3.1. Please identify whether this national assessment evaluates each of the following mathematics constructs

<u>Data management</u> Creating surveys and questionnaires, administering them, collecting data, summarizing and representing data, interpreting results	Yes No
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4. Please identify whether this national assessment evaluates the following domain

<u>Geometry</u> Understanding and using properties of 2-D shapes (e.g., lines, triangles) and 3-D objects (e.g., cubes, spheres), completing transformations (e.g., rotations, reflections), and working in the Cartesian plane (e.g., plotting points)	Yes (Q4.1) No (Q5)
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4.1. Please identify whether this national assessment evaluates each of the following mathematics constructs

<u>Constructions</u> Constructing lines, angles, plane figures, 3-D objects; investigating symmetry and congruence	Yes No
<u>Properties</u> Recognize and use properties of lines and angles, plane figures, 3-D objects, symmetry and congruence and similarity	Yes No
<u>Position and direction</u> Translating, rotating, reflecting and dilatating various geometric shapes and objects	Yes No
<u>Properties of space</u> Locating geometric shapes and objects in the Cartesian plane	Yes No

5. Please identify whether this national assessment evaluates the following domain

<u>Algebra</u> understanding and using non-numerical patterns (e.g., patterns observed in the environment), numerical patterns (e.g., sequences), functions (linear and non-linear), and properties of variation (i.e., ratio, proportion, percent)	Yes (Q5.1) No
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5.1. Please identify whether this national assessment evaluates each of the following mathematics constructs

<u>Relations</u> Investigate patterns in number sequences, investigate properties of algebraic expressions	Yes No
<u>Linear functions</u> Recognize and use appropriate algebraic notion, properties of linear functions, linear equations, simultaneous equations	Yes No
<u>Variation</u> Recognize and use ratio, percentage and proportion to solve mathematical problems	Yes No

Mathematics – End of lower secondary

1. Please identify whether this national assessment evaluates the following domain

<u>Number Knowledge</u> Understanding and using pre-number ideas (e.g., counting), symbols, and different number systems (e.g., whole numbers, fractions)	Yes (Q1.1) No (Q2)
--	-----------------------

1.1. Please identify whether this national assessment evaluates each of the following mathematics constructs

<u>Natural numbers</u> Counting and operations with positive integers including zero (i.e., 0, 1, 2, 3, ...)	Yes No
<u>Fractions</u> Counting and operations with rational numbers expressed as a/b where a is the numerator and b is the denominator; b does not equal 0	Yes No
<u>Decimals</u> Counting and operations with real numbers expressed in base ten notation	Yes No
<u>Integers</u> Counting and operations with negative and positive real numbers (i.e., ... -2, -1, 0, 1, 2, ...)	Yes No
<u>Exponents</u> Operations with numbers where a quantity (the base) is raised to the power of another quantity (the exponent)	Yes No

2. Please identify whether this national assessment evaluates the following domain

<u>Measurement</u> Understanding and using non-standard units (e.g., pencil lengths, teacup amounts) and standard units (e.g., inches, grams, litres) to measure various quantities	Yes (Q2.1) No (Q3)
--	-----------------------

2.1. Please identify whether this national assessment evaluates each of the following mathematics constructs

<u>Shapes and objects</u>	Yes No
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Measuring quantities in the world using established measurement units (e.g., inches, cm, km, L, gallons, lbs., kg)	
<u>Daily Living</u> Measuring quantities in daily life using established units (e.g., time in months, days, hours, mins; currency; temperature)	Yes No

3. Please identify whether this national assessment evaluates the following domain

<u>Statistics and Probability</u> Understanding and using good data management procedures (e.g., organizing, representing, interpreting) to conduct investigations; using chance and probability experiments (e.g., coin tosses) to explore mathematics of probability	Yes (Q3.1) No (Q4)
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3.1. Please identify whether this national assessment evaluates each of the following mathematics constructs

<u>Data management</u> Creating surveys and questionnaires, administering them, collecting data, summarizing and representing data, interpreting results	Yes No
<u>Chance and probability experiments</u> Recognizing and using principles of chance to make predictions, principles of probability and simple probability experiments (e.g., coin tosses)	Yes No

4. Please identify whether this national assessment evaluates the following domain

<u>Geometry</u> Understanding and using properties of 2-D shapes (e.g., lines, triangles) and 3-D objects (e.g., cubes, spheres), completing transformations (e.g., rotations, reflections), and working in the Cartesian plane (e.g., plotting points)	Yes (Q4.1) No (Q5)
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4.1. Please identify whether this national assessment evaluates each of the following mathematics constructs

<u>Constructions</u> Constructing lines, angles, plane figures, 3-D objects; investigating symmetry and congruence	Yes No
<u>Properties</u>	Yes

Recognize and use properties of lines and angles, plane figures, 3-D objects, symmetry and congruence and similarity	No
<u>Position and direction</u>	Yes
Translating, rotating, reflecting and dilatating various geometric shapes and objects	No
<u>Properties of space</u>	Yes
Locating geometric shapes and objects in the Cartesian plane	No

5. Please identify whether this national assessment evaluates the following domain

<u>Algebra</u> understanding and using non-numerical patterns (e.g., patterns observed in the environment), numerical patterns (e.g., sequences), functions (linear and non-linear), and properties of variation (i.e., ratio, proportion, percent)	Yes (Q5.1) No
--	------------------

5.1. Please identify whether this national assessment evaluates each of the following mathematics constructs

<u>Relations</u> Investigate patterns in number sequences, investigate properties of algebraic expressions	Yes No
<u>Linear functions</u> Recognize and use appropriate algebraic notion, properties of linear functions, linear equations, simultaneous equations	Yes No
<u>Non-linear functions</u> Recognize and use appropriate algebraic notion, properties of non-linear functions and solve nonlinear simultaneous systems	Yes No
<u>Variation</u> Recognize and use ratio, percentage and proportion to solve mathematical problems	Yes No

Mathematics - Scoring Rules

Sufficient coverage:

50% or greater of the grade-level appropriate constructs in 4 or 5 of the 5 content* domains

AND

75% or greater of the grade-level appropriate constructs over all the 5 content domains (when taken together)

Insufficient coverage:

The rest of the cases.

*The UIS Global Framework content domains used to determine sufficiency of content coverage are: Number Knowledge; Measurement; Statistics; Geometry; Algebra. The Global Framework also contains the cognitive domain Math Proficiency, which is not a part of determining sufficiency of content coverage

Reading - Questions

Registration (contact information):

Select a Country	
Full name	
Organization	
Organization unit	
Function	
Email address	
Phone number	

Reading (coverage)

Does your country conduct a national learning assessment covering Reading?	Yes (Q3) No (End)
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General information of NLA

Full name of the assessment in national or official language																												
Full name of the assessment in English																												
Administration year																												
Target grade (select all that apply)	<table> <tr> <td>ISCED 1:</td> <td>ISCED 2:</td> <td>ISCED 3:</td> </tr> <tr> <td>Grade 1</td> <td>Grade 1</td> <td>Grade 1</td> </tr> <tr> <td>Grade 2</td> <td>Grade 2</td> <td>Grade 2</td> </tr> <tr> <td>Grade 3</td> <td>Grade 3</td> <td>Grade 3</td> </tr> <tr> <td>Grade 4</td> <td>Grade 4</td> <td>Grade 4</td> </tr> <tr> <td>Grade 5</td> <td>Grade 5</td> <td>Grade 5</td> </tr> <tr> <td>Grade 6</td> <td>Grade 6</td> <td></td> </tr> <tr> <td>Grade 7</td> <td></td> <td></td> </tr> <tr> <td>Grade 8</td> <td></td> <td></td> </tr> </table>	ISCED 1:	ISCED 2:	ISCED 3:	Grade 1	Grade 1	Grade 1	Grade 2	Grade 2	Grade 2	Grade 3	Grade 3	Grade 3	Grade 4	Grade 4	Grade 4	Grade 5	Grade 5	Grade 5	Grade 6	Grade 6		Grade 7			Grade 8		
ISCED 1:	ISCED 2:	ISCED 3:																										
Grade 1	Grade 1	Grade 1																										
Grade 2	Grade 2	Grade 2																										
Grade 3	Grade 3	Grade 3																										
Grade 4	Grade 4	Grade 4																										
Grade 5	Grade 5	Grade 5																										
Grade 6	Grade 6																											
Grade 7																												
Grade 8																												
Measurement Point (select all that apply)	Grade 2/3 End of primary End of lower secondary																											
Data source	Census Sample																											
Assessment scale	National																											

	Regional Provincial Other
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Instructions

The following questions are specific to the content of your national assessment at each measurement point (grade 2/3, end of primary, end of lower secondary).

The answers to the questions could be either “yes” or “no”. Each “yes” response is assigned a 1; each “no” response is assigned a 0. The percent of 1s forms the basis for scoring the questionnaire.

Once all the questions for a given measurement point are answered, the tool will display the scoring and coverage of the content of your national assessment for that measurement point.

At the end of the questionnaire, scoring and coverage of the content of other countries will be also displayed.

Reading – Grade 2/3

6. Please identify whether this national assessment evaluates the following sub-domain

<u>Decoding</u> Ability to associate the orthographic form of a word with its phonological form, where the orthographic form is given by the sequence of the graphemes	Yes (Q1.1) No (Q2)
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6.1. Please identify whether this national assessment evaluates each of the following reading constructs

<u>Fluency</u> Presupposes precision and speed in word recognition, as well as, qualities such as rhythm, intonation, and phrasing at the phrase, sentence, and text levels.	Yes No
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7. Please identify whether this national assessment evaluates the following sub-domain

<u>Reading comprehension</u> Process by which information is retrieved from a written text, interpreted and reflected upon	Yes (Q2.1) No
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7.1. Please identify whether this national assessment evaluates each of the following reading constructs

<u>Identify</u> Recognition of meaning and purpose of written texts. As well as, recognition of the differences between different types of sentences, texts, and the parts that compose them	Yes No
<u>Retrieve</u> Extract and explain the meaning and purpose of sentences and written texts. Distinguishing and relating main and secondary ideas, sequence of events, roles and characteristics of the characters and situations	Yes No
<u>Motivation and disposition</u> Set of emotional and cognitive factors that encourages a person to get involved in reading either for pleasure, information needs and/or academic purposes	Yes No

Reading – End of primary

1. Please identify whether this national assessment evaluates the following sub-domain

<u>Decoding</u> Ability to associate the orthographic form of a word with its phonological form, where the orthographic form is given by the sequence of the graphemes	Yes (Q1.1) No (Q2)
---	-----------------------

1.1. Please identify whether this national assessment evaluates each of the following reading constructs

<u>Fluency</u> Presupposes precision and speed in word recognition, as well as, qualities such as rhythm, intonation, and phrasing at the phrase, sentence, and text levels.	Yes No
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2. Please identify whether this national assessment evaluates the following sub-domain

<u>Reading comprehension</u> Process by which information is retrieved from a written text, interpreted and reflected upon	Yes (Q2.1) No
---	------------------

2.1. Please identify whether this national assessment evaluates each of the following reading constructs

<u>Identify</u> Recognition of meaning and purpose of written texts. As well as, recognition of the differences between different types of sentences, texts, and the parts that compose them	Yes No
<u>Retrieve</u> Extract and explain the meaning and purpose of sentences and written texts. Distinguishing and relating main and secondary ideas, sequence of events, roles and characteristics of the characters and situations	Yes No
<u>Interpret</u> Extract and recognize implicit and explicit information from a written sentence or text to relate it with other information or apply it to new situations or problem solving	Yes No
<u>Reflect</u> Critically analyze and give an opinion about the information presented in a written sentence or text, as well as, regarding	Yes No



the author's intentions and the consequences the information may have	
<u>Metacognition</u>	Yes No
<u>Motivation and disposition</u> Set of emotional and cognitive factors that encourages a person to get involved in reading either for pleasure, information needs and/or academic purposes	Yes No

Reading – End of lower secondary

1. Please identify whether this national assessment evaluates the following sub-domain

<u>Reading comprehension</u> Process by which information is retrieved from a written text, interpreted and reflected upon	Yes (Q1.1) No
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1.1. Please identify whether this national assessment evaluates each of the following reading constructs

<u>Identify</u> Recognition of meaning and purpose of written texts. As well as, recognition of the differences between different types of sentences, texts, and the parts that compose them	Yes No
<u>Retrieve</u> Extract and explain the meaning and purpose of sentences and written texts. Distinguishing and relating main and secondary ideas, sequence of events, roles and characteristics of the characters and situations	Yes No
<u>Interpret</u> Extract and recognize implicit and explicit information from a written sentence or text to relate it with other information or apply it to new situations or problem solving	Yes No
<u>Reflect</u> Critically analyze and give an opinion about the information presented in a written sentence or text, as well as, regarding the author's intentions and the consequences the information may have	Yes No
<u>Metacognition</u>	Yes No
<u>Motivation and disposition</u> Set of emotional and cognitive factors that encourages a person to get involved in reading either for pleasure, information needs and/or academic purposes	Yes No



Reading - Scoring Rules

Sufficient coverage:

To be placed into this category, a NLA must assess more than 50% of the educational level appropriate constructs to the reading competency domain that contains selected constructs from the decoding and reading comprehension sub-domains.

Insufficient coverage:

The rest of the cases.