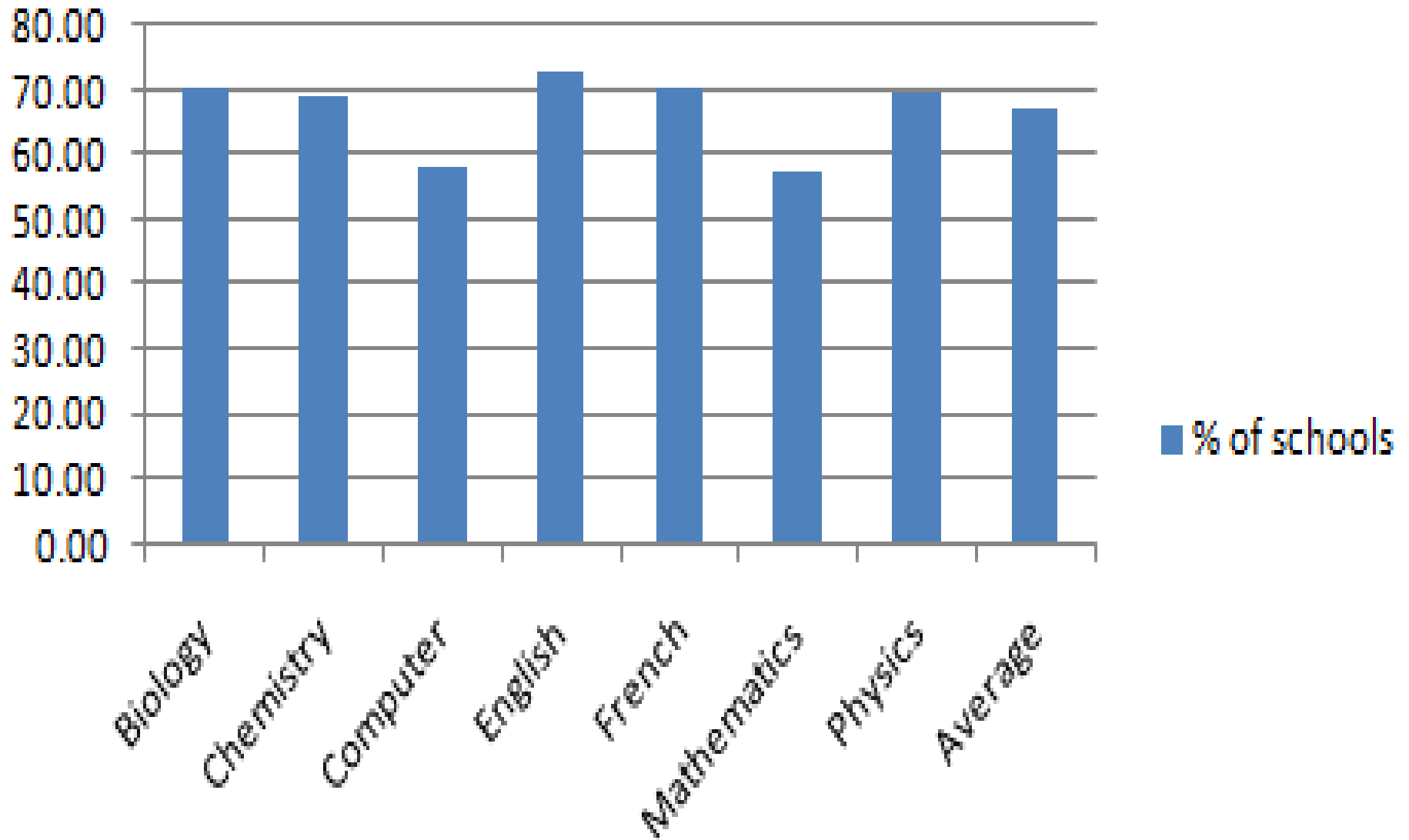


ANALYSIS OF STUDENTS'
PERFORMANCE AT FORM III
NATIONAL ASSESSMENT 2011

% of schools that submitted data by subject



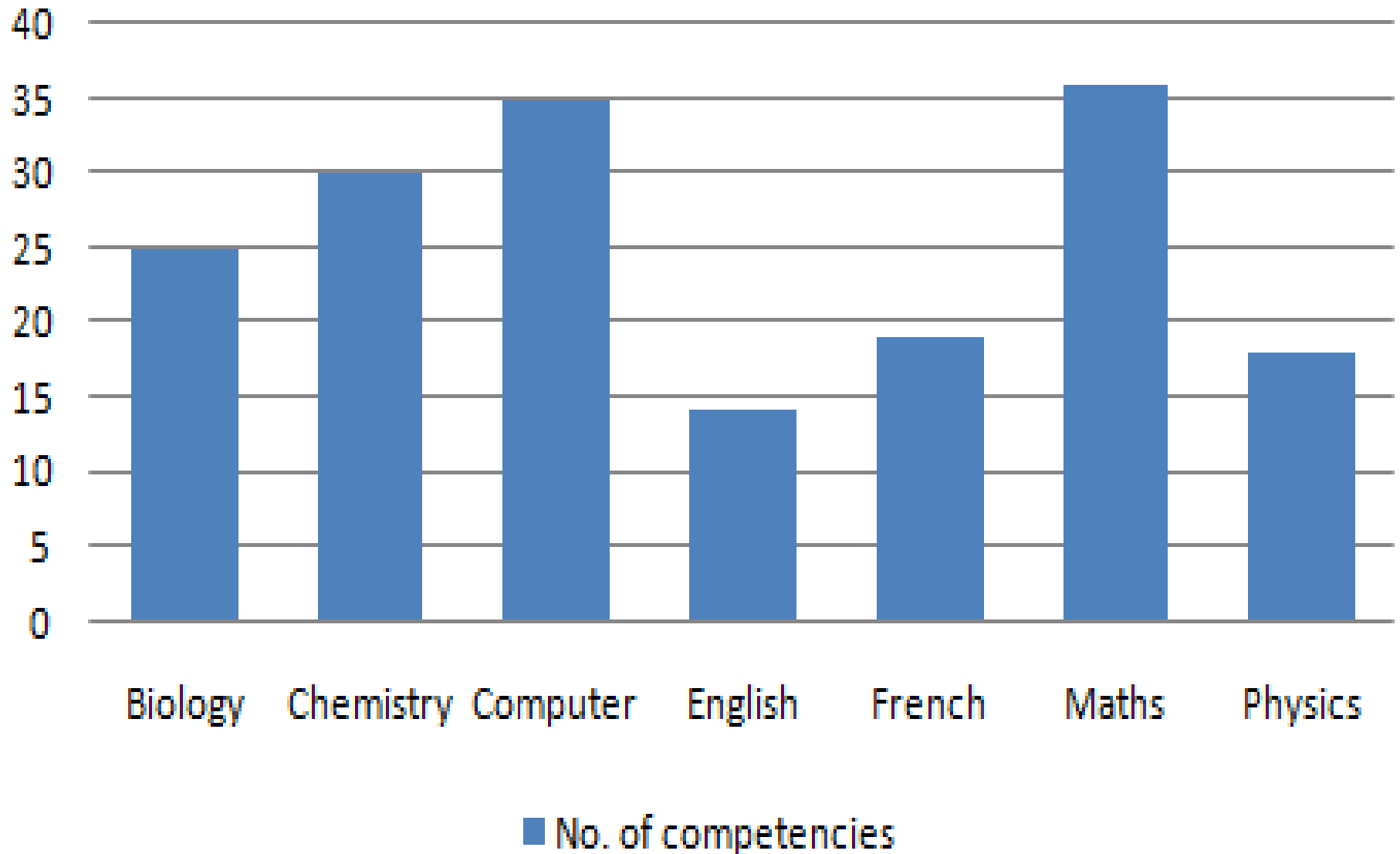
Objectives

- To evaluate the level of competencies acquired by the students
- To identify the academic strengths and weaknesses and take corrective measures where needed

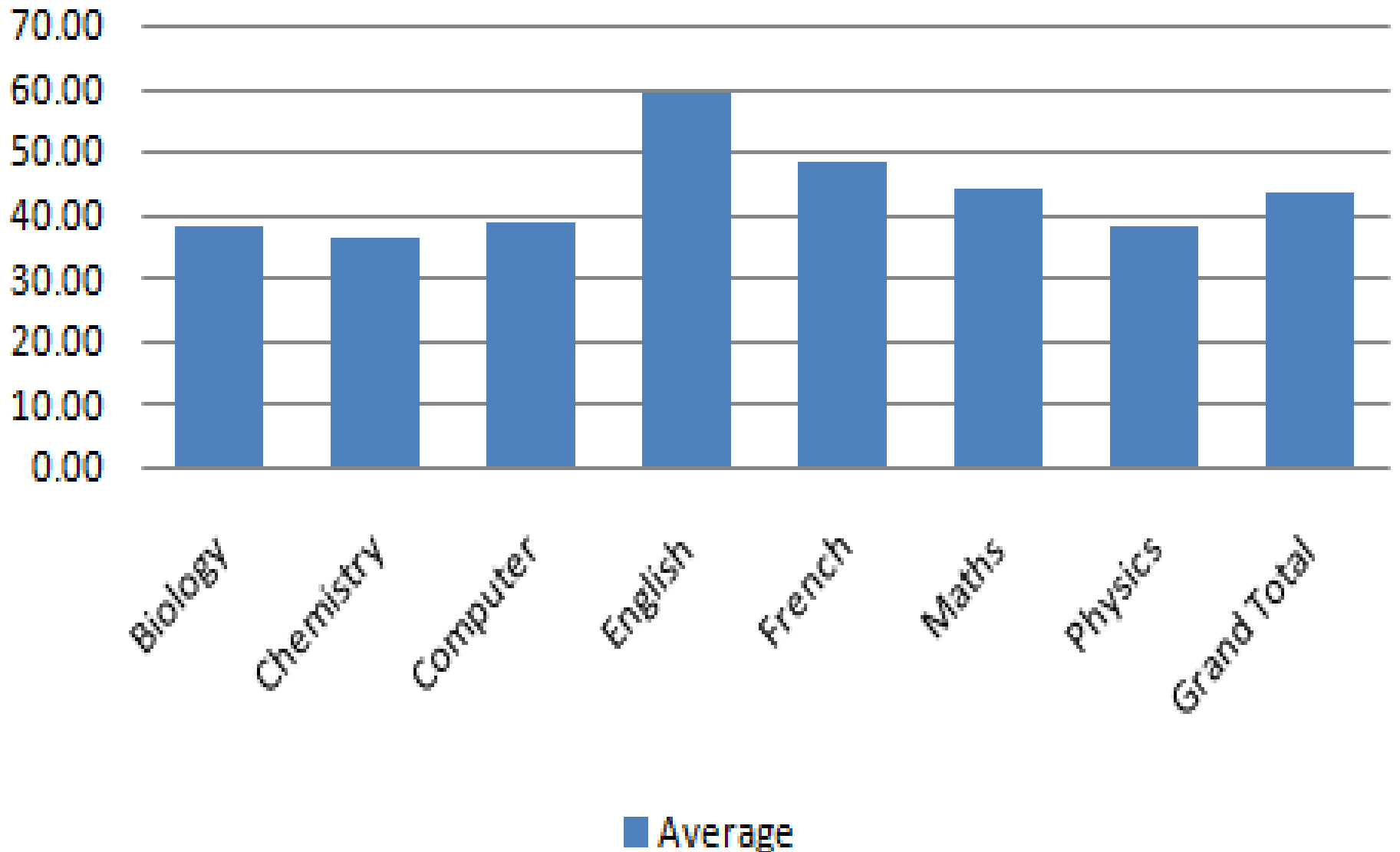
Competencies in Mathematics

SN	Topic	Competency	Code
1	Number	Use natural Numbers, integers (positive, negative and zero), prime numbers, common factors and common multiples, rational and irrational numbers, real numbers	C 01
		Continue given number sequences, recognise patterns within and across different sequences and generalise to simple algebraic statements	C 02
2	Squares, Square Roots, Cubes and Cube Roots	Calculate squares, square roots, cubes and cube roots of numbers	C 03
3	Vulgar and Decimal Fractions and Percentages	Use the language and notation of simple vulgar and decimal fractions and percentages in appropriate contexts	C 04

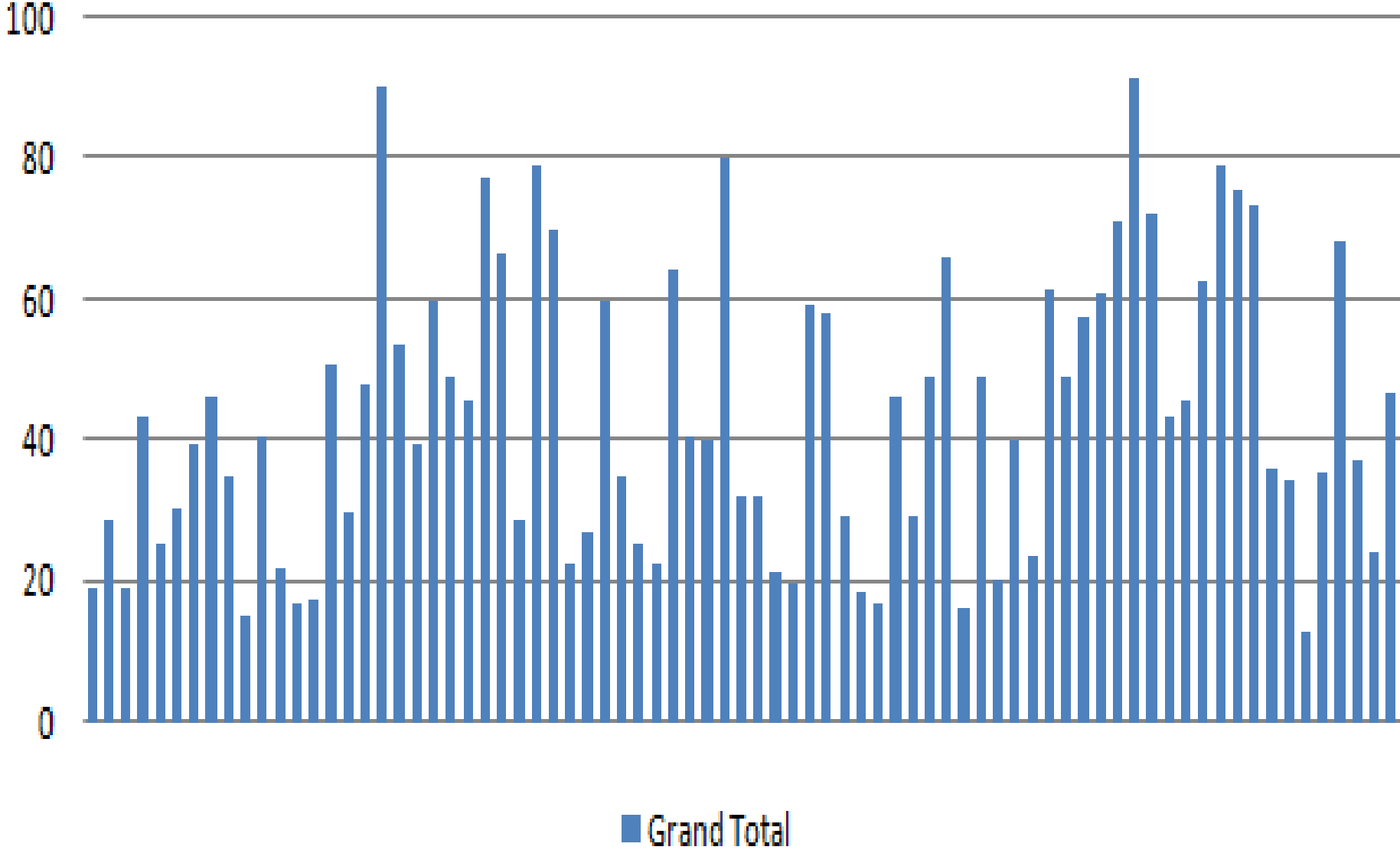
No. of competencies by subject



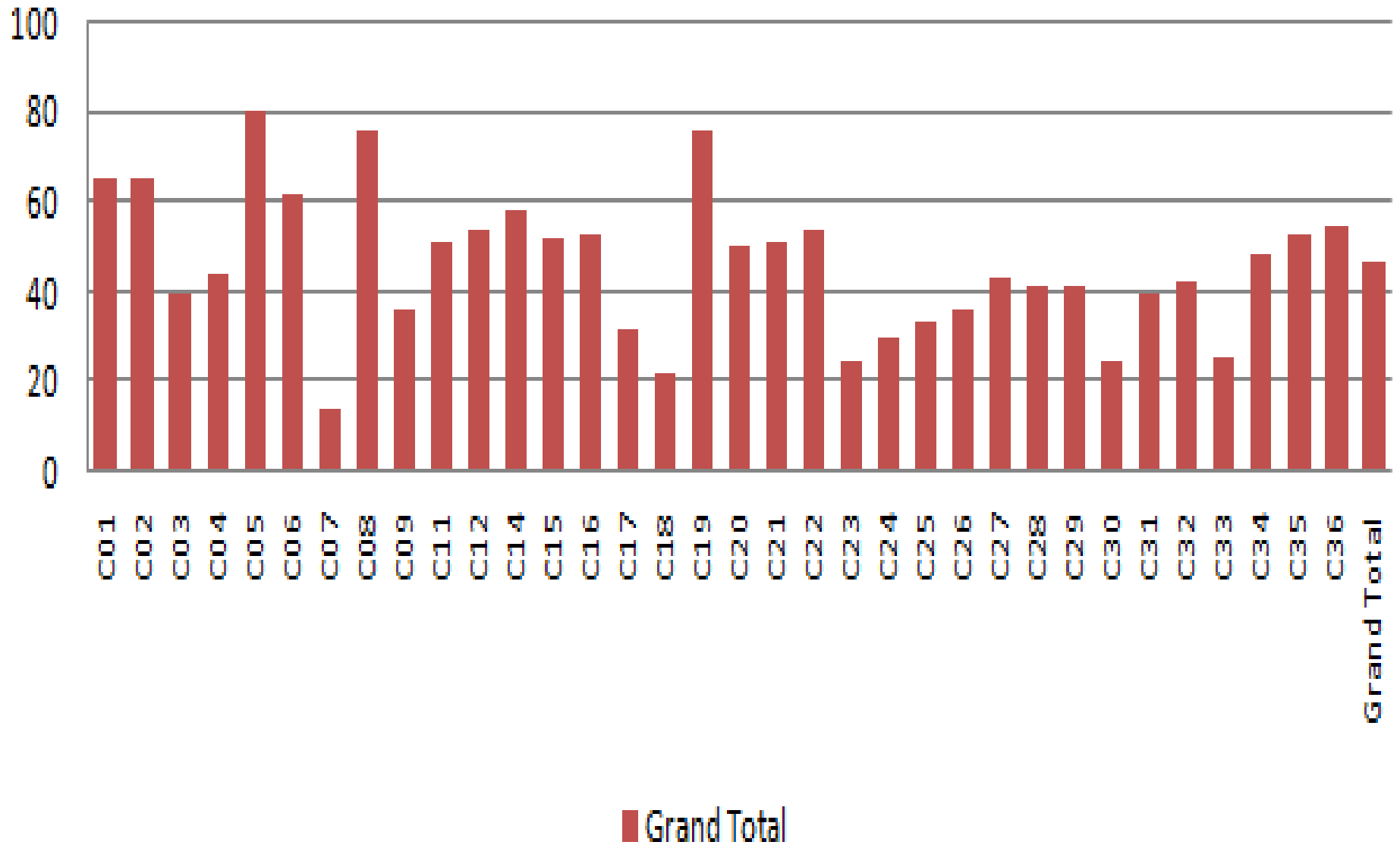
Students' Performance by subject



Performance by school in Mathematics



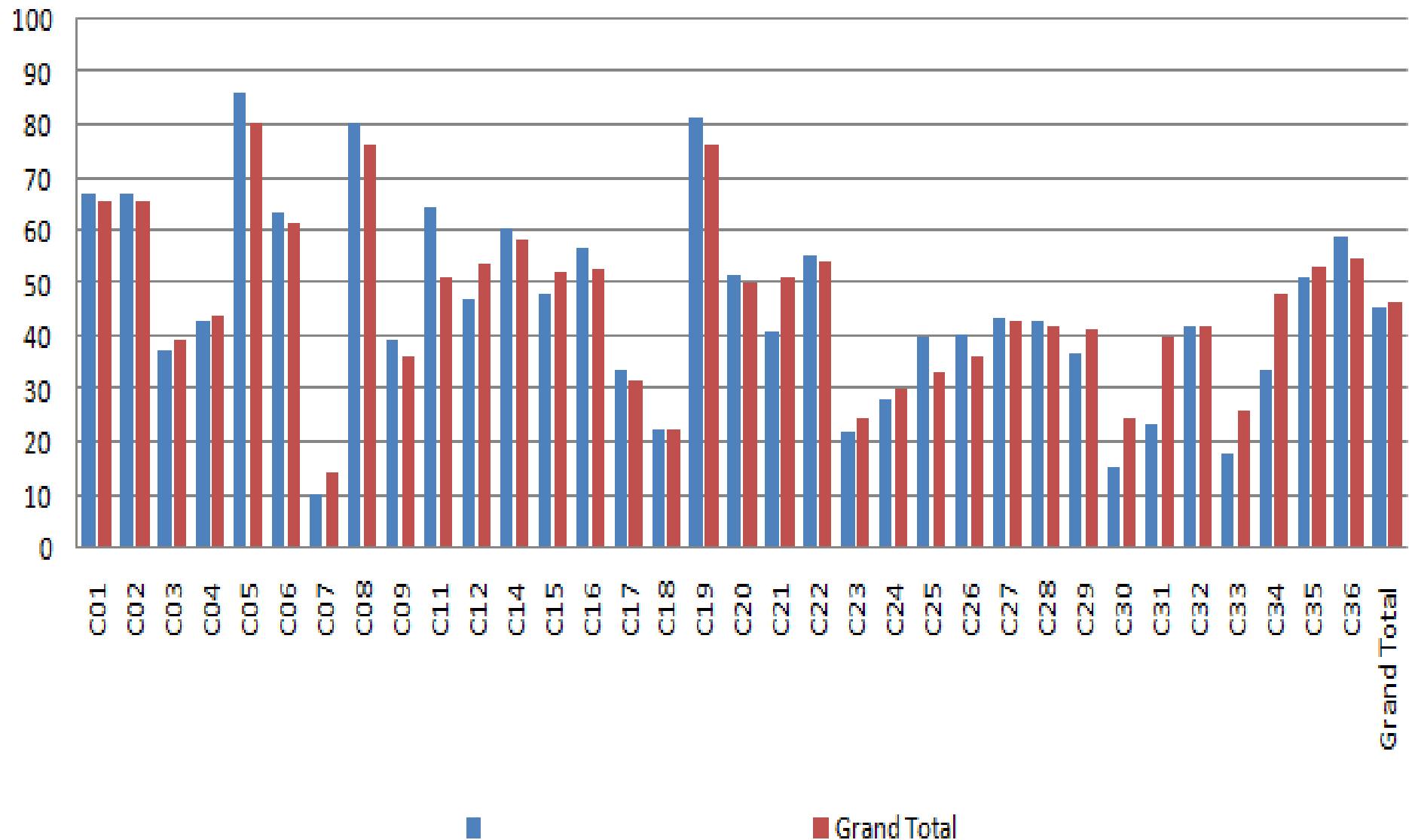
Performance by competency in Mathematics



Competency with highest and lowest % attainment at National level - Mathematics

SN	Topics	Competency	Code	Remarks
1	The Four Operations	Use the four operations for calculations with whole numbers, decimal fractions and vulgar (and mixed) fraction, including correct ordering of operations and use of brackets	C 05	Competency with highest % attainment
2	Ratio, Proportion, Rate	Demonstrate an understanding of the elementary ideas and notation of ratio, direct and inverse proportion and common measures of rate	C 07	Competency with lowest % attainment

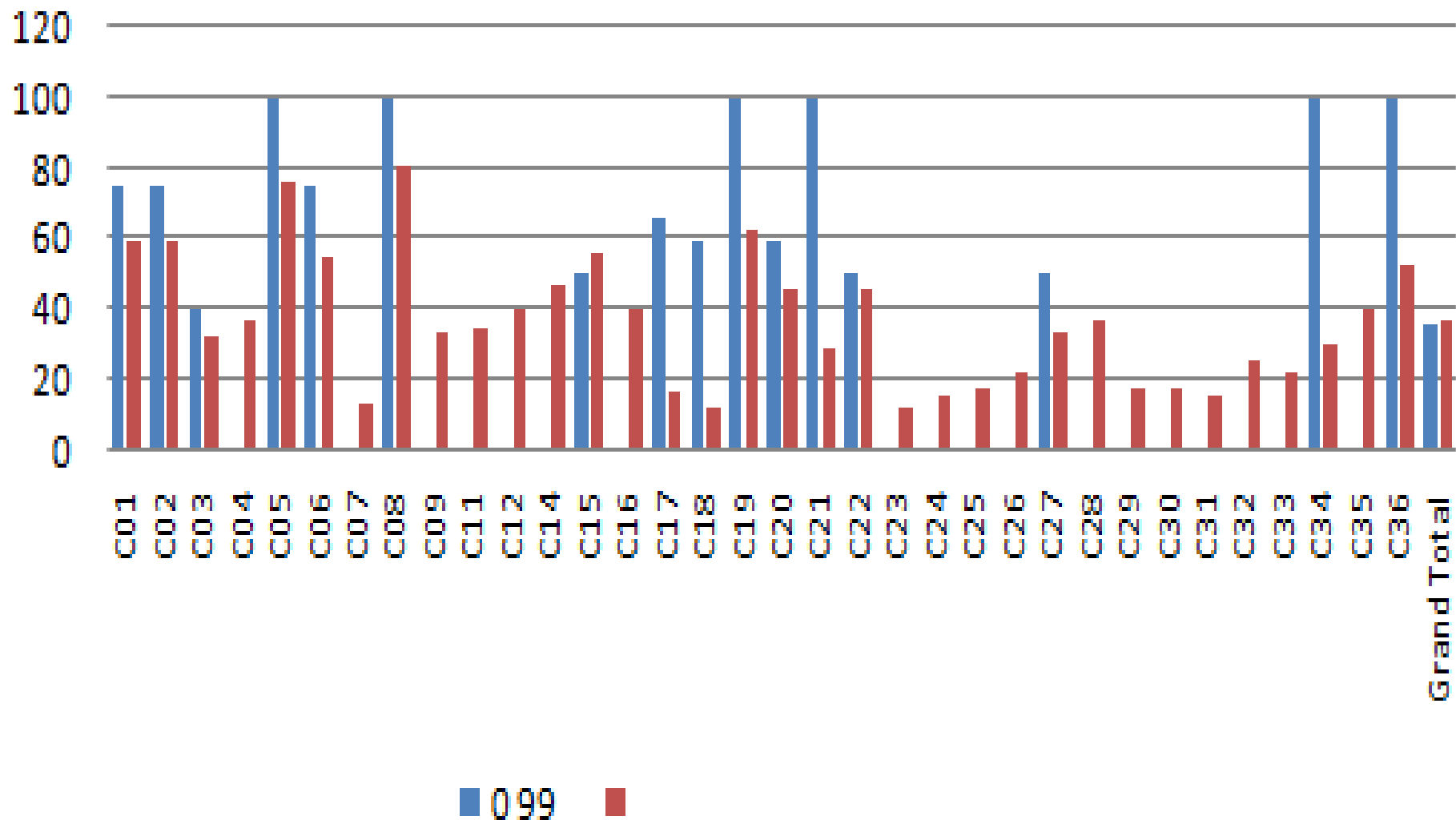
School performance by competency as compared to national average in Mathematics



Largest difference in % attainment of school as compared to National average- Mathematics

SN	Topics	Competency	Code	Remarks
1	Coordinate Geometry	Interpret and obtain the equation of a straight line graph in the form $y = mx + c$	C 11	Higher than the national average
2	Statistics	Construct and use bar charts, pie charts, pictograms, simple frequency distributions;	C 31	Lower than the national average

Student performance by competency as compared to school average in Mathematics



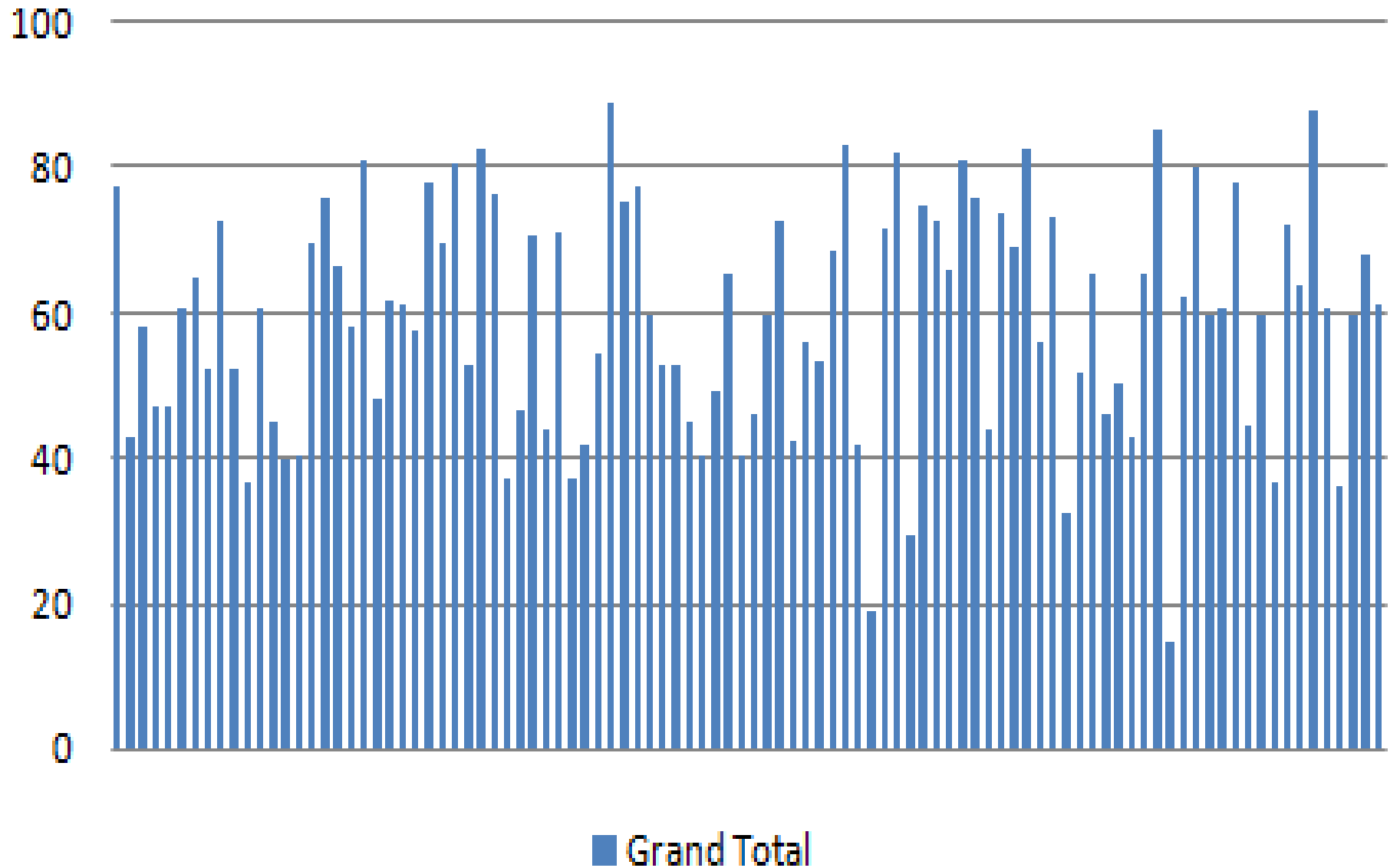
Report to Parents on performance of student- Mathematics

SN	Topic	Competency	Code	% attainment
1	Measures	Use current units of mass, length, area, volume and capacity in practical situations and express quantities in terms of larger or smaller units	C 08	100
2	Squares, Square Roots, Cubes and Cube Roots	Calculate squares, square roots, cubes and cube roots of numbers	C 03	40
3	Angles	Calculate unknown angles and give simple explanations using the following geometrical properties: angle properties of polygons including angle sum.	C 27	50

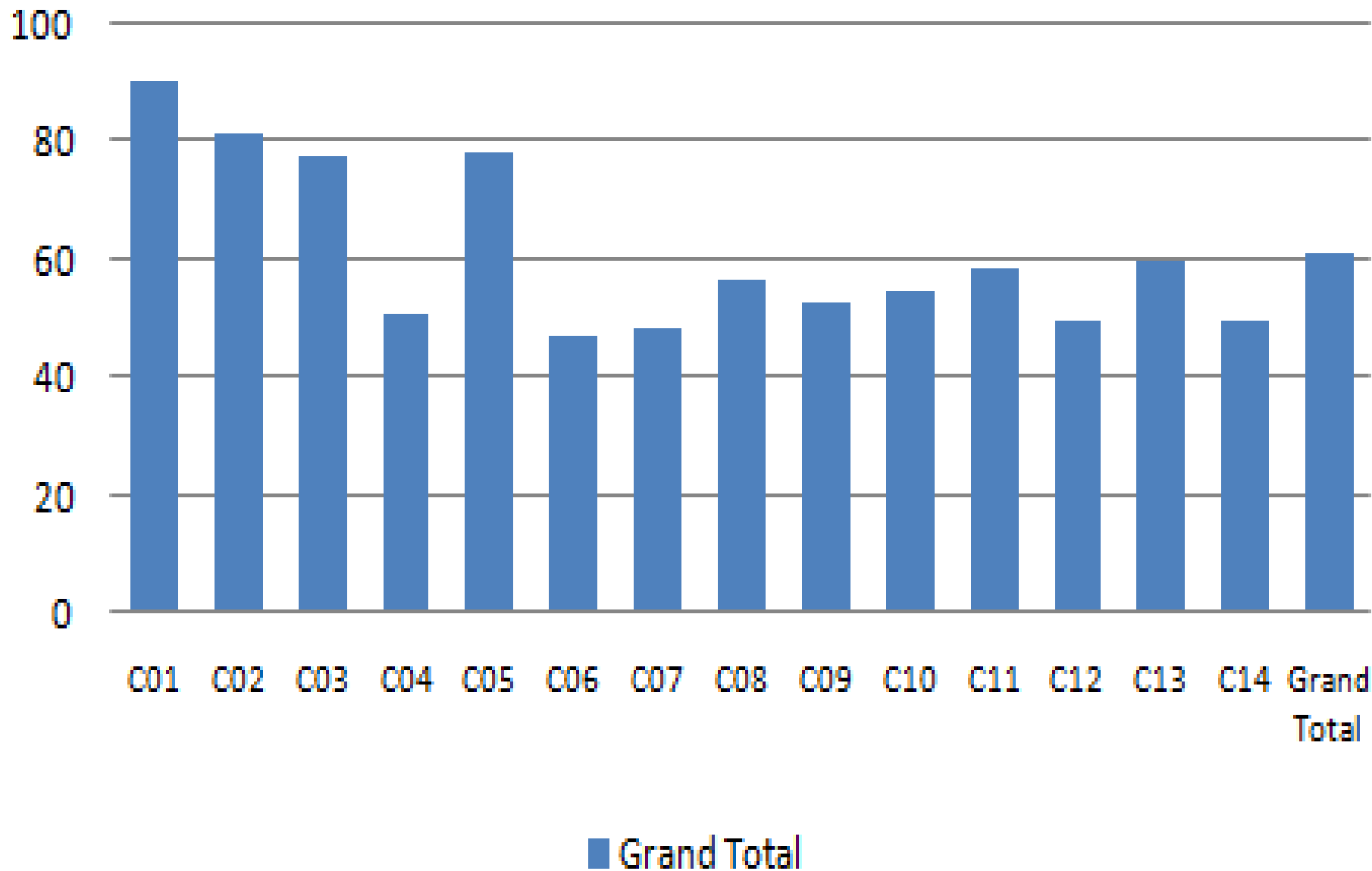
Competencies in English

SN	Topics	Competency	Code
1	Reading	Respond to texts and organise information read	C 01
		Understand explicit meaning	C 02
		Identify central themes and ideas	C 03
		Draw inferences	C 04
		Identify characters and follow the sequence of events	C 05

Students' performance by school in English



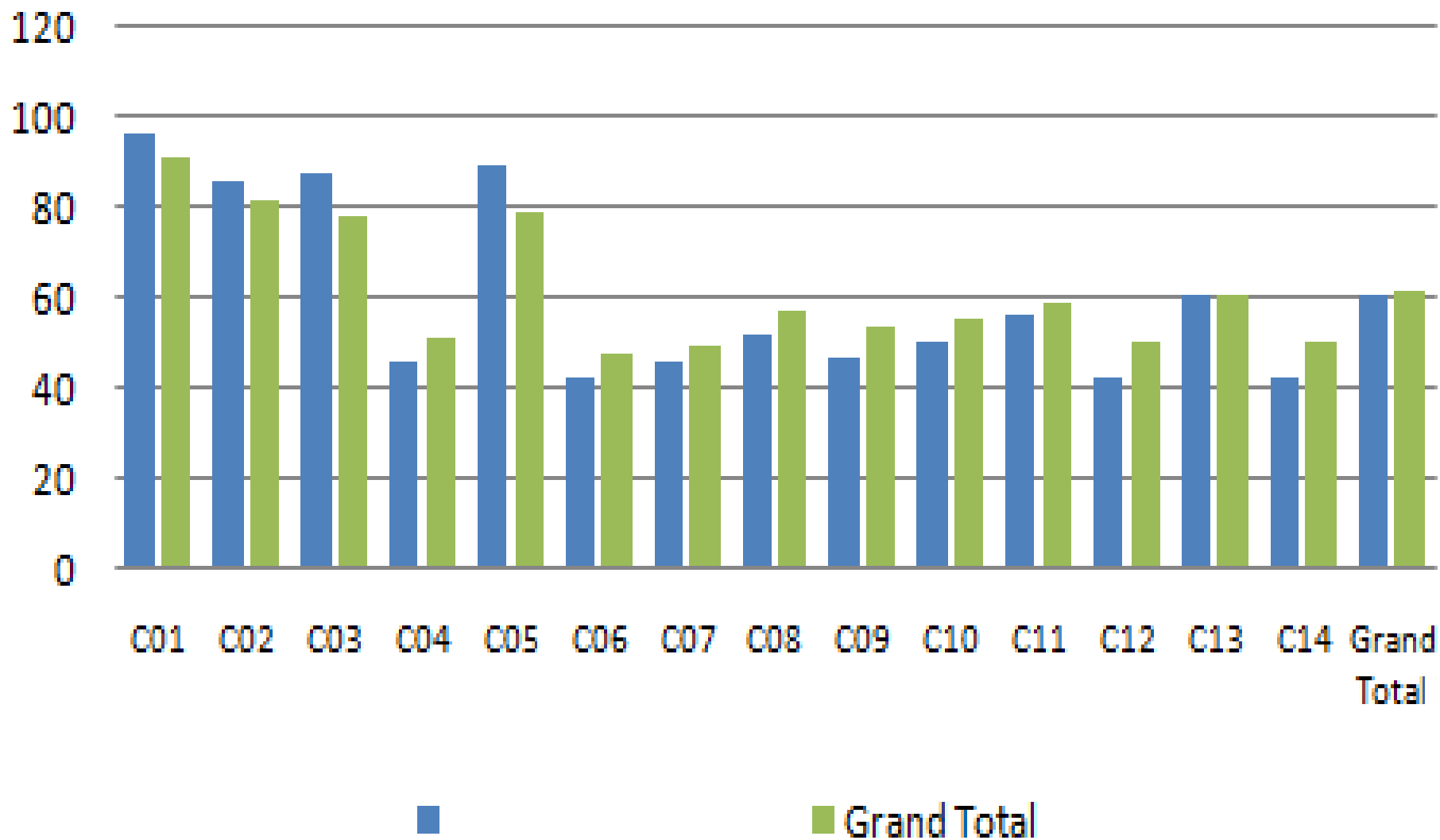
Performance by competency in English



Competency with highest and lowest % attainment at National level- English

SN	Topics	Competency	Code	Remarks
1	Reading	Respond to texts and organise information read	C 01	Competency with highest % attainment
		Provide a personal response to the text	C 06	Competency with lowest % attainment

School performance by competency as compared to national average in English



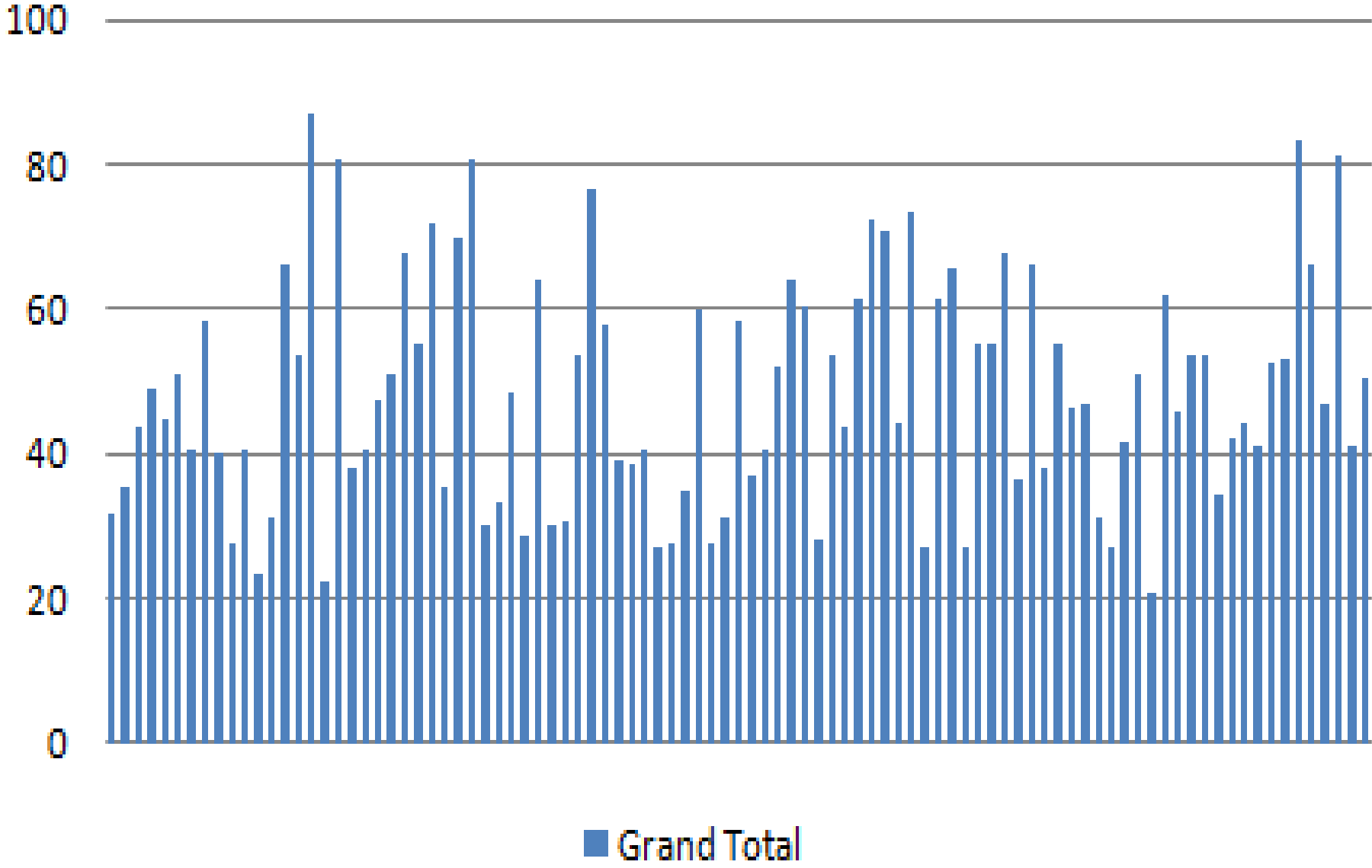
Largest difference in % attainment of school as compared to National average - English

SN	Topics	Competency	Code	Remarks
1	Reading	Identify characters and follow the sequence of events	C 05	Higher than the National average
2	Writing	Use appropriate conventions of writing (e.g. paragraphing, proper layout for writing letters, etc)	C 12	Lower than the National average
		Display originality and creativity.	C 14	

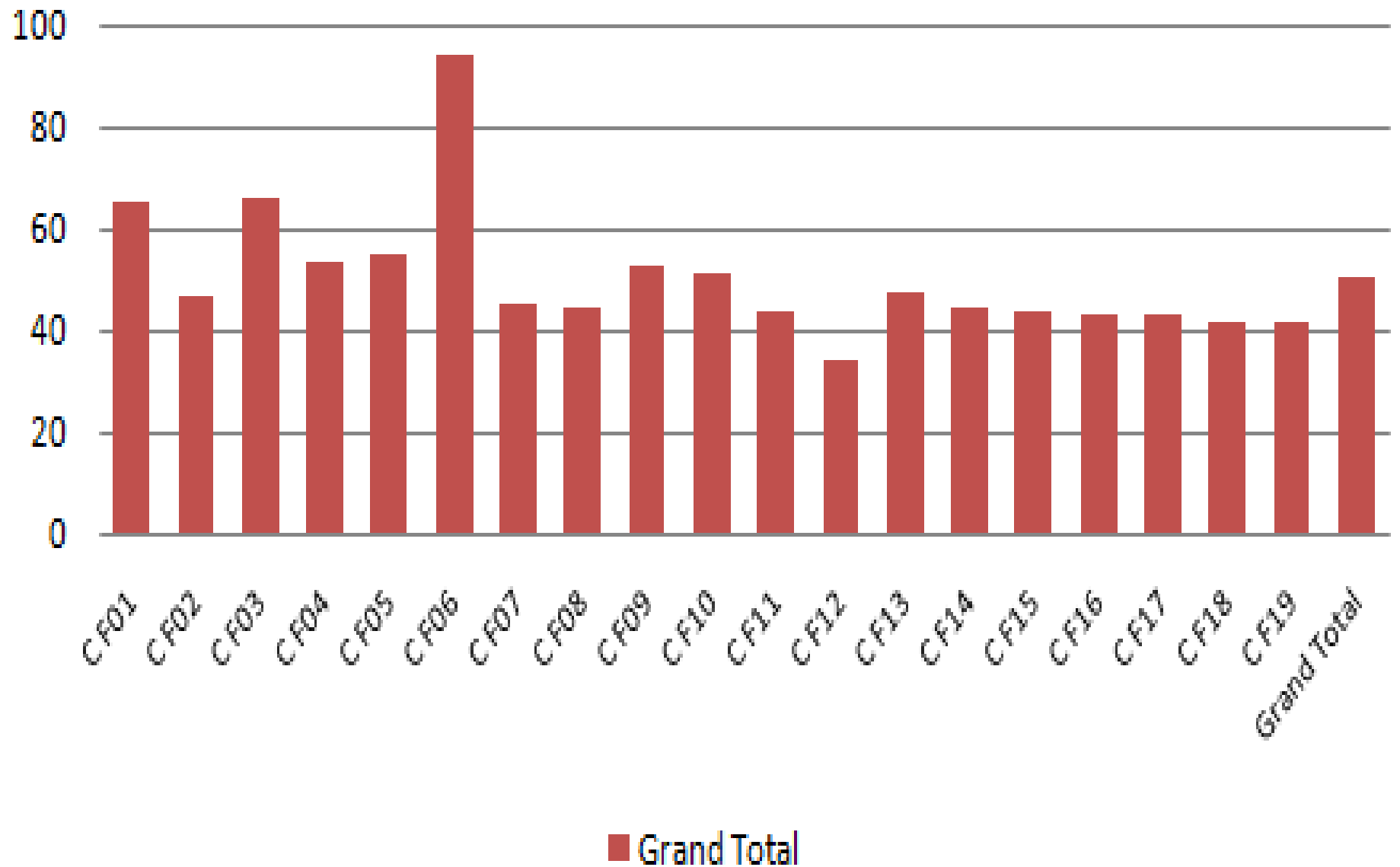
Competencies in French

SN	Topic	Competency	Code
1	Lecture/ Compréhension	Reconnaître, lire et comprendre des textes de la vie de tous les jours (mode d'emploi, dépliant, programme de télé, ...)	C F01
		Obtenir des informations de différentes sources (dictionnaire, encyclopédie, média, ...), les organiser et s'en servir	C F02
		Lire une variété de textes, de différentes longueurs et sur des sujets différents et	C F03
		retrouver des informations spécifiques	C F04

Performance by school in French



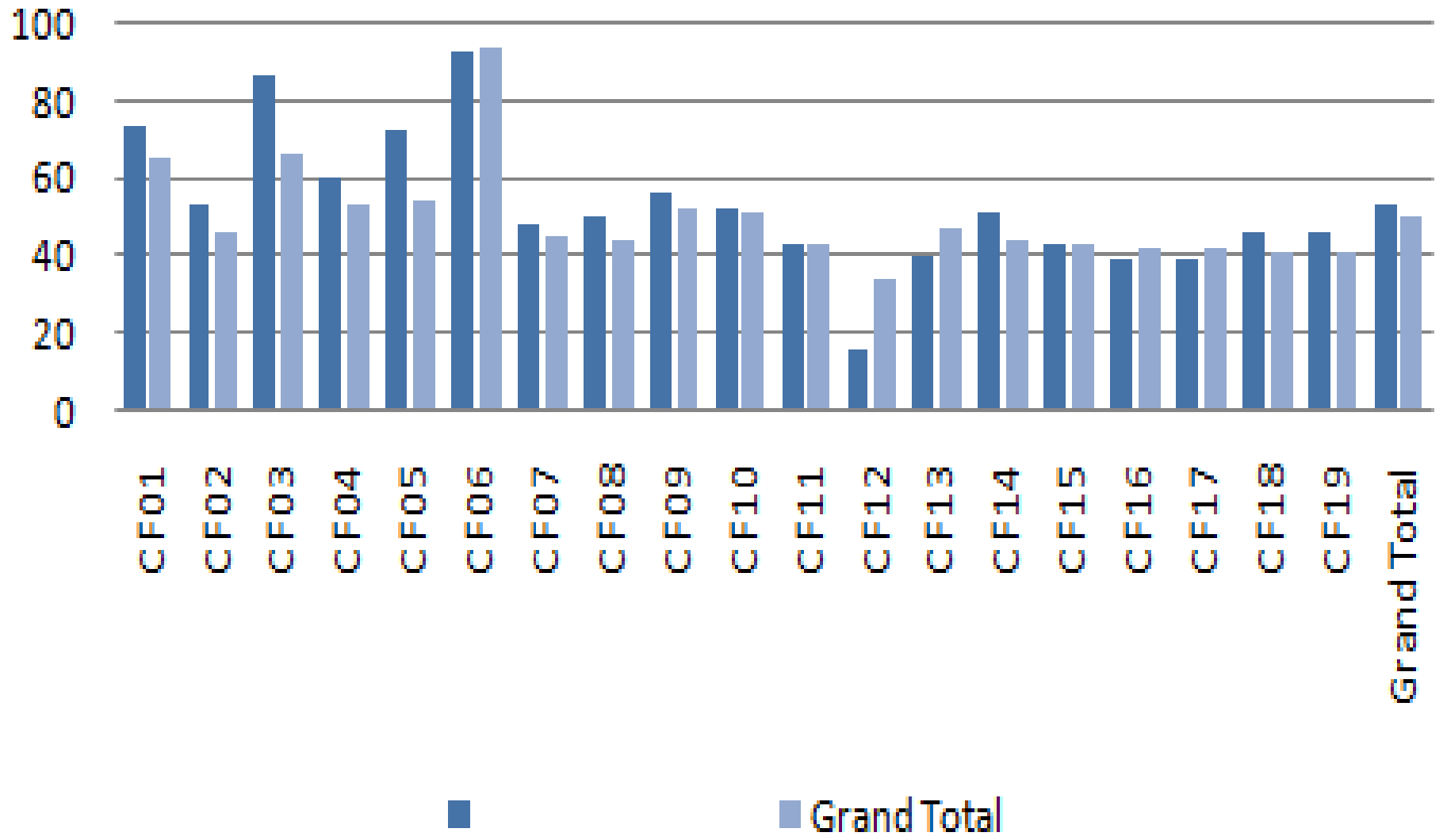
Performance by competency in French



Competency with highest and lowest % attainment at National level-French

SN	Topic	Competency	Code	Remarks
1	Lecture/ Compréhension	suivre l'ordre logique et chronologique	CF06	Competency with highest % attainment
2	Production Écrite	Avoir une bonne orthographe	CF12	Competency with lowest % attainment

Performance by competency as compared to national average in French



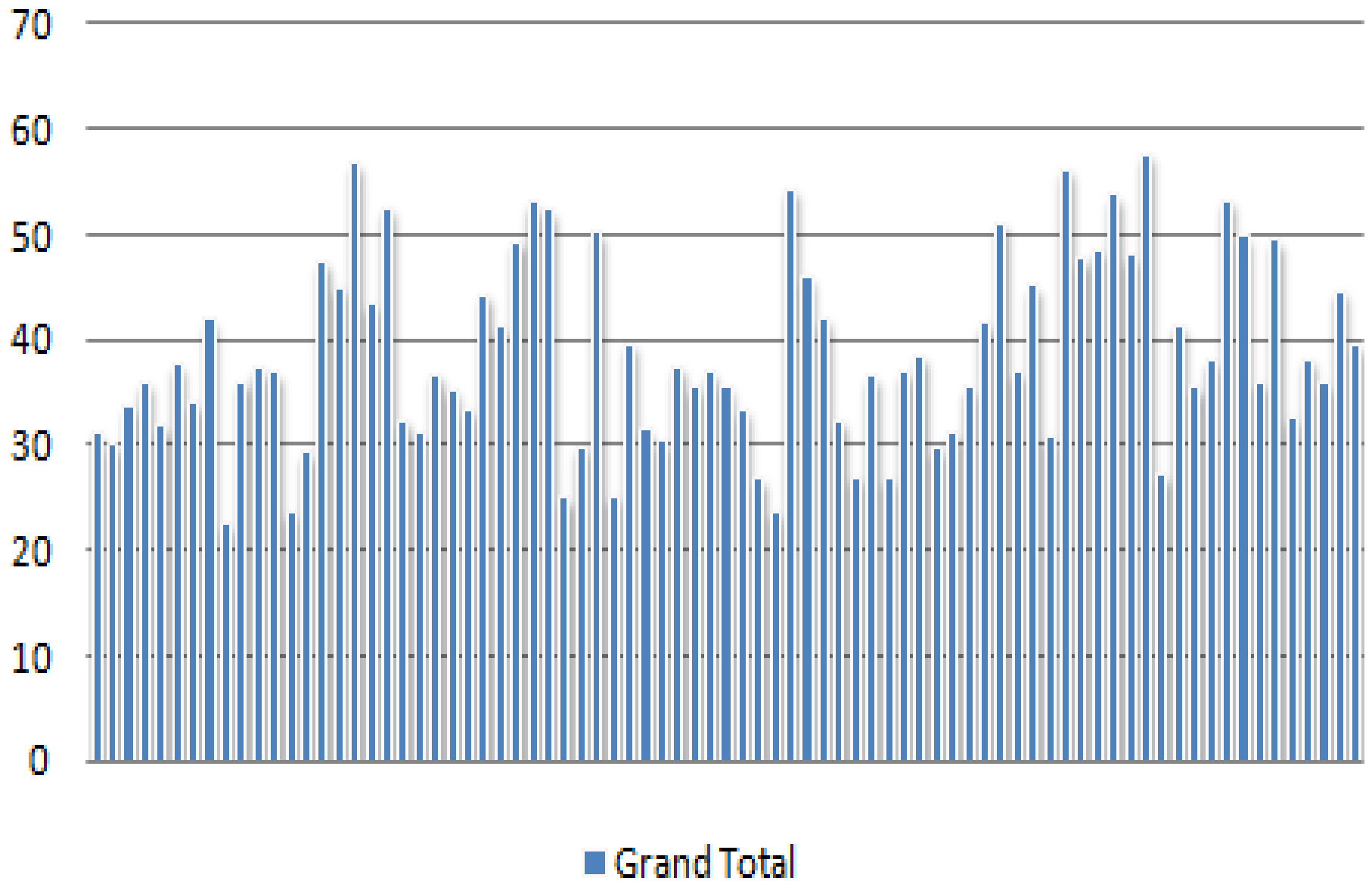
Largest difference in % attainment of school as compared to National average -French

SN	Topic	Competency	Code	Remarks
1	Lecture/ Compréhension	Lire une variété de textes, de différentes longueurs et sur des sujets différents et	CF03	Higher than the National average
		identifier des personnages	CF05	Higher than the National average
2	Production Écrite	Avoir une bonne orthographe	CF12	Lower than the National average

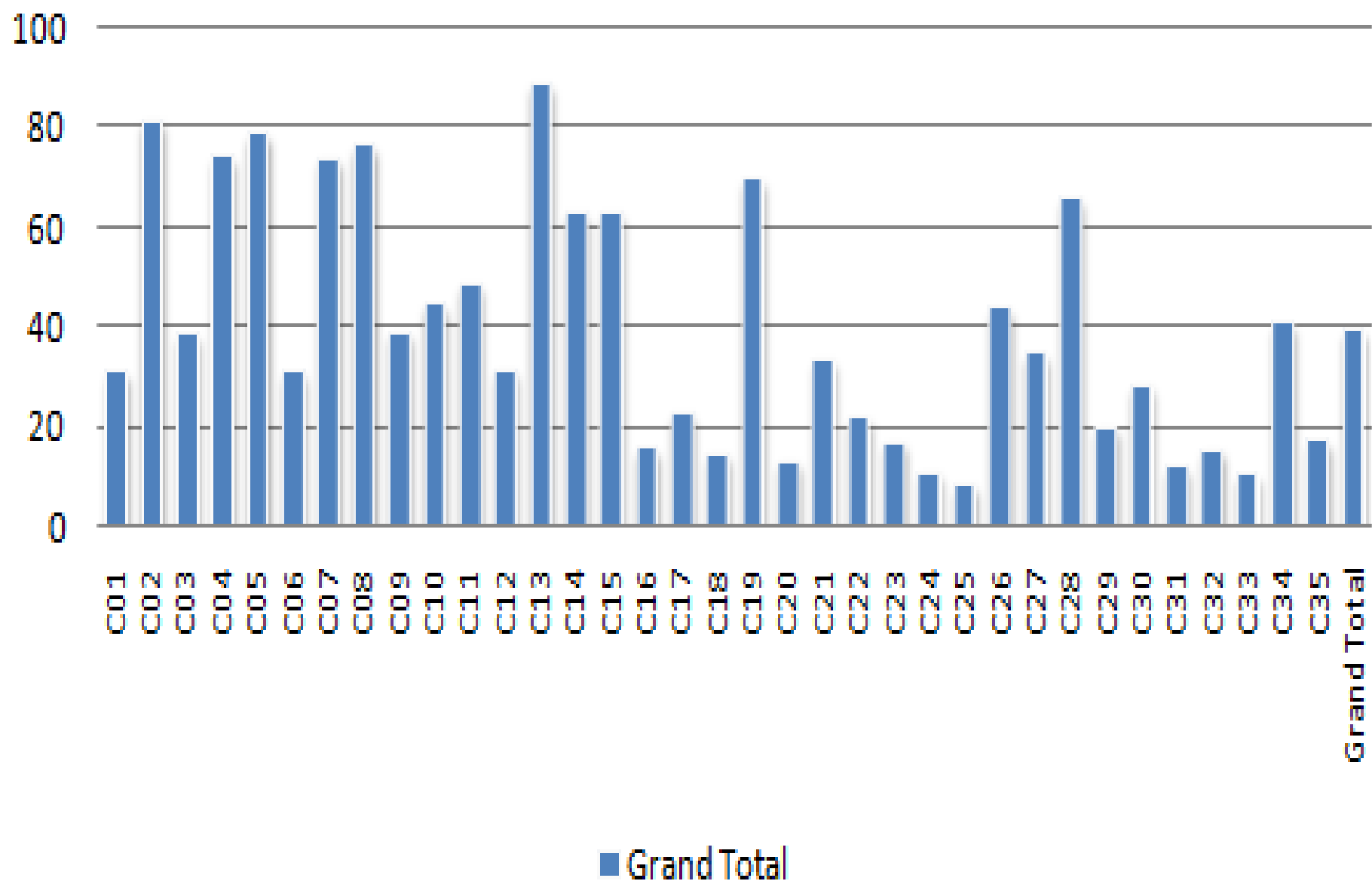
Competencies in Computer Studies/ Literacy

SN	Topic	Competency	Code
	Computer System	Identify the main components of a general-purpose computer: central processing unit, main/internal memory (including ROM and RAM), input devices, output devices and secondary/backing storage;	C 0 1
		Define the terms bit, byte, kilobyte, megabyte and gigabyte;	C 0 2
		Identify and describe the purpose of the following input devices: keyboard, mouse, joystick, microphone, bar code reader, scanner;	C 0 3
		Identify and describe the purpose of the following output devices: monitor, printer (dot matrix, inkjet and laser), graph plotter and speakers;	C 0 4

Performance by school in Computer studies/ literacy



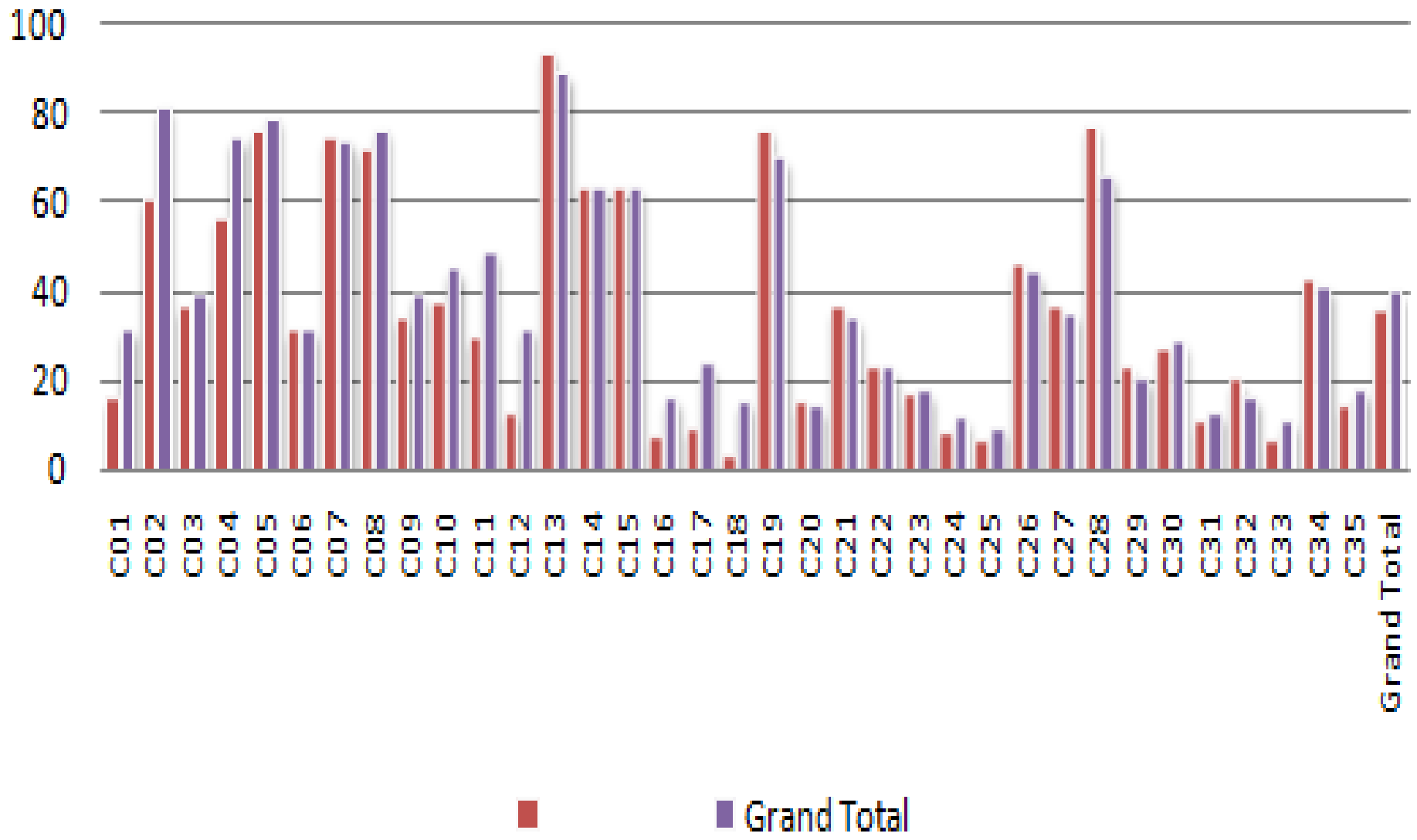
Performance by competency in Computer studies/ literacy



Competency with highest and lowest % attainment at National level-Computer studies / literacy

SN	Topics	Competency	Code	Remarks
1	Networking and Internet Applications	Define the terms: internet, WWW, e-mail;	C 13	Competency with highest % attainment
2	Application Packages: Database	Understand the structure of a database (field name, field type and field width).	C 25	Competency with lowest % attainment

School Performance by competency as compared to national average in Computer studies/ literacy



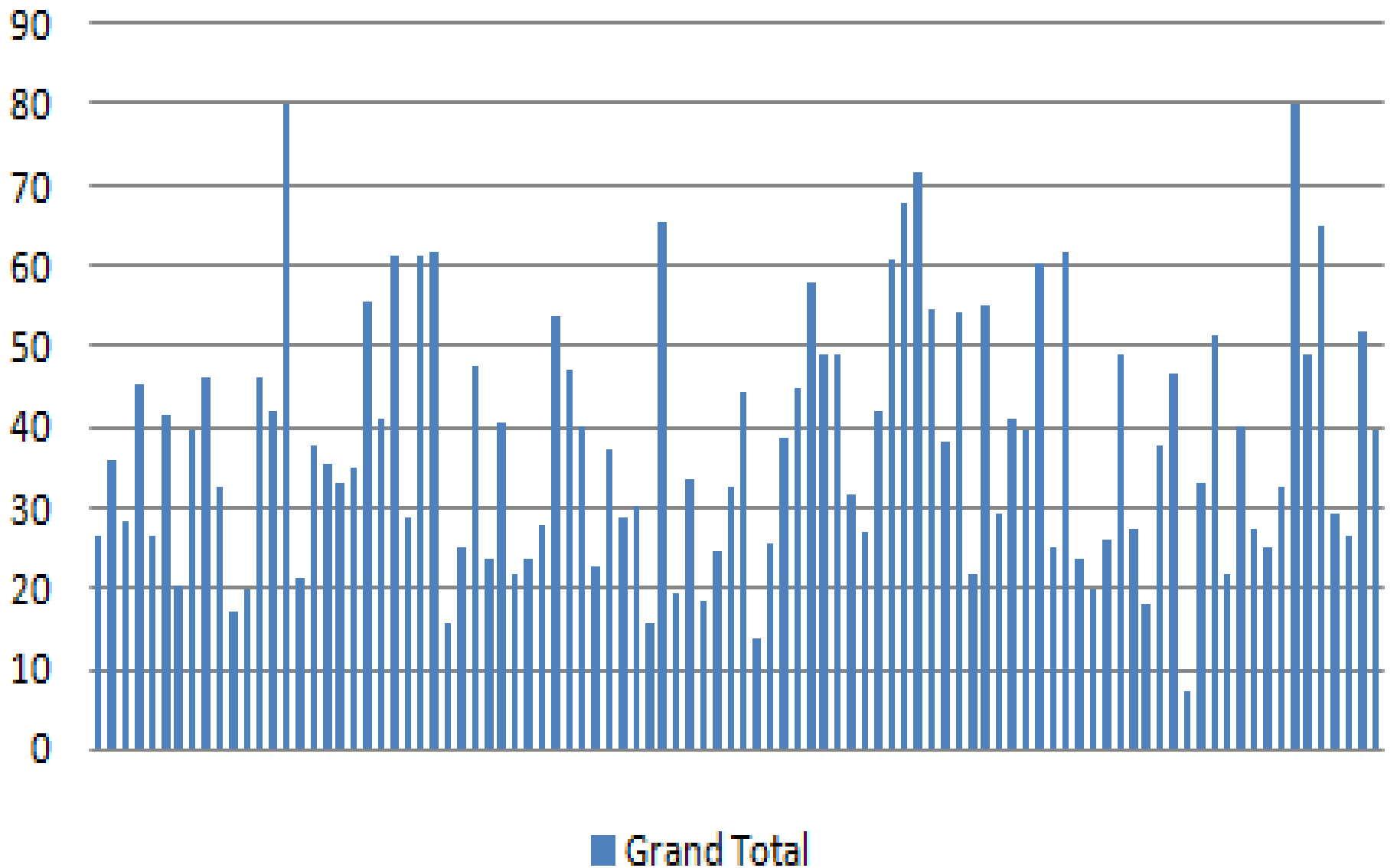
Largest difference in % attainment of school as compared to National average –Computer Studies / Literacy

SN	Topics	Competency	Code	Remarks
1	Alternative to Practical: Word Processing	Insert graphics, pictures and textbox into the document body;	C 28	Higher than the National average
2	Computer System	Define the terms bit, byte, kilobyte, megabyte and gigabyte;	C 02	Lower than the National average

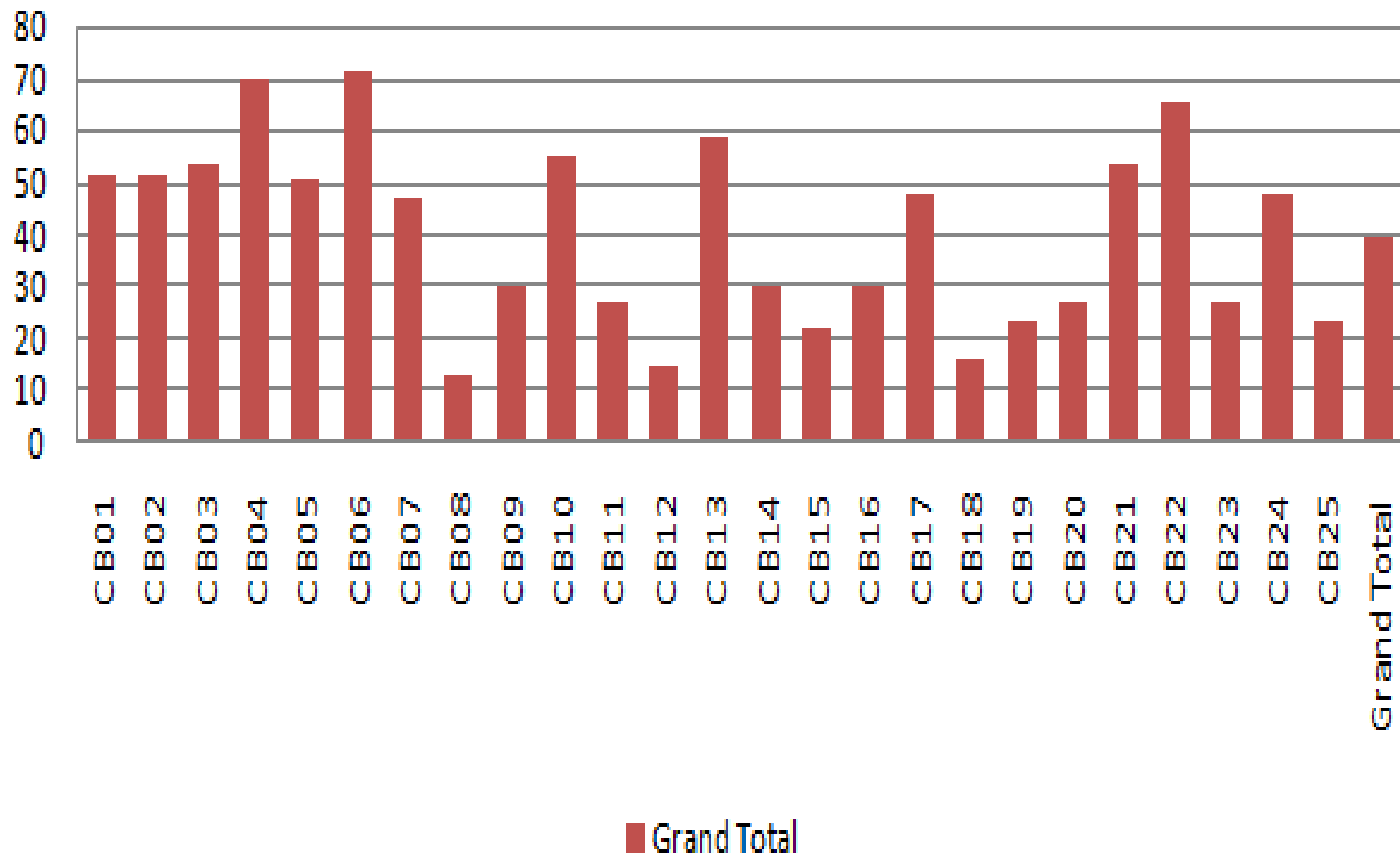
Competencies in Biology

SN	Topic	Competency	Code
1	Cells	Draw diagrams to represent observations of the plant and animal cells examined above	C B 01
		Identify, from diagrams, the cell membrane, nucleus and cytoplasm in an animal cell	C B 02
		Compare the visible differences in structure of the animal and the plant cells examined	C B 03
		State, in simple terms, the relationship between cell function and cell structure for the following: absorption - root hair cells	C B 04

Performance by school in Biology



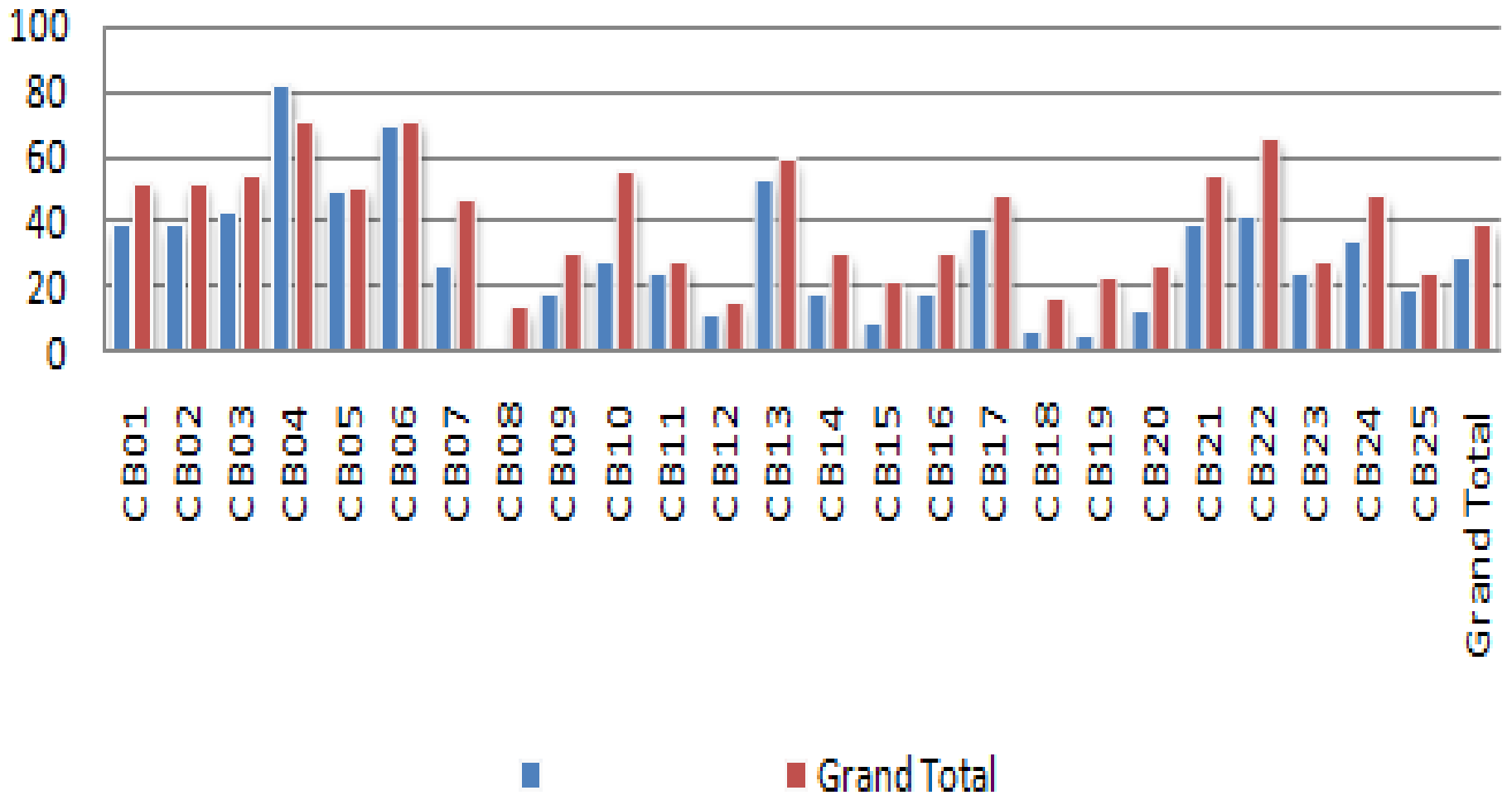
Performance by competency in Biology



Competency with highest and lowest % attainment at National level-Biology

SN	Topics	Competency	Code	Remarks
2	Food and Digestion	Describe tests for: starch (iodine in potassium iodide solution)	C B 06	Competency with highest % attainment
		Give a brief definition of peristalsis	C B 08	Competency with lowest % attainment

School Performance by competency as compared to national average in Biology



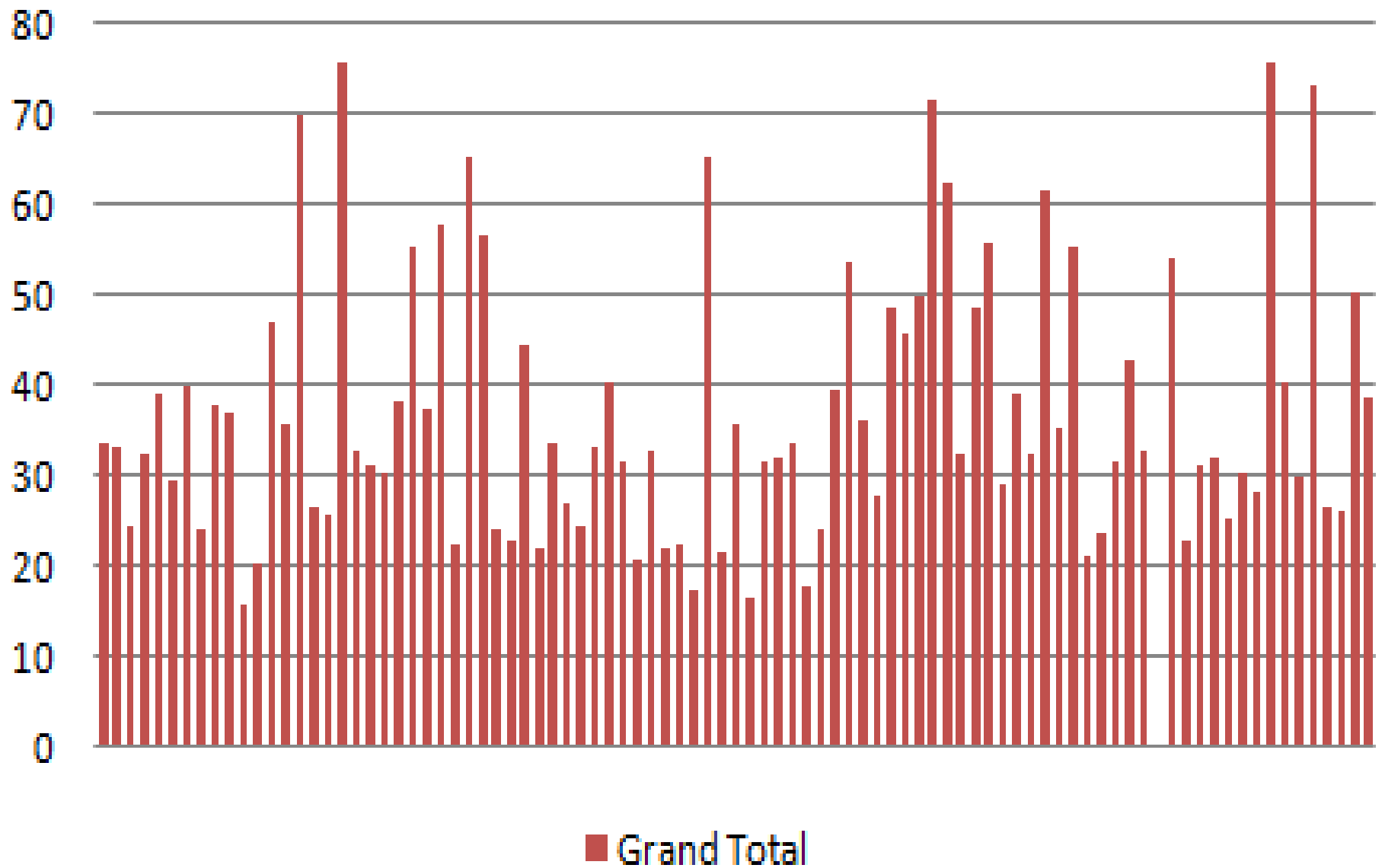
Largest difference in % attainment of school as compared to National average -Biology

SN	Topics	Competency	Code	Remarks
1	Cells	State, in simple terms, the relationship between cell function and cell structure for the following: absorption - root hair cells	C B 04	Higher than the National average
2	Our Environment	Define the following terms and establish the relationship of each in the ecosystem: producer, consumer, herbivore, carnivore, decomposer, food chain and food web	C B 22	Lower than the National average

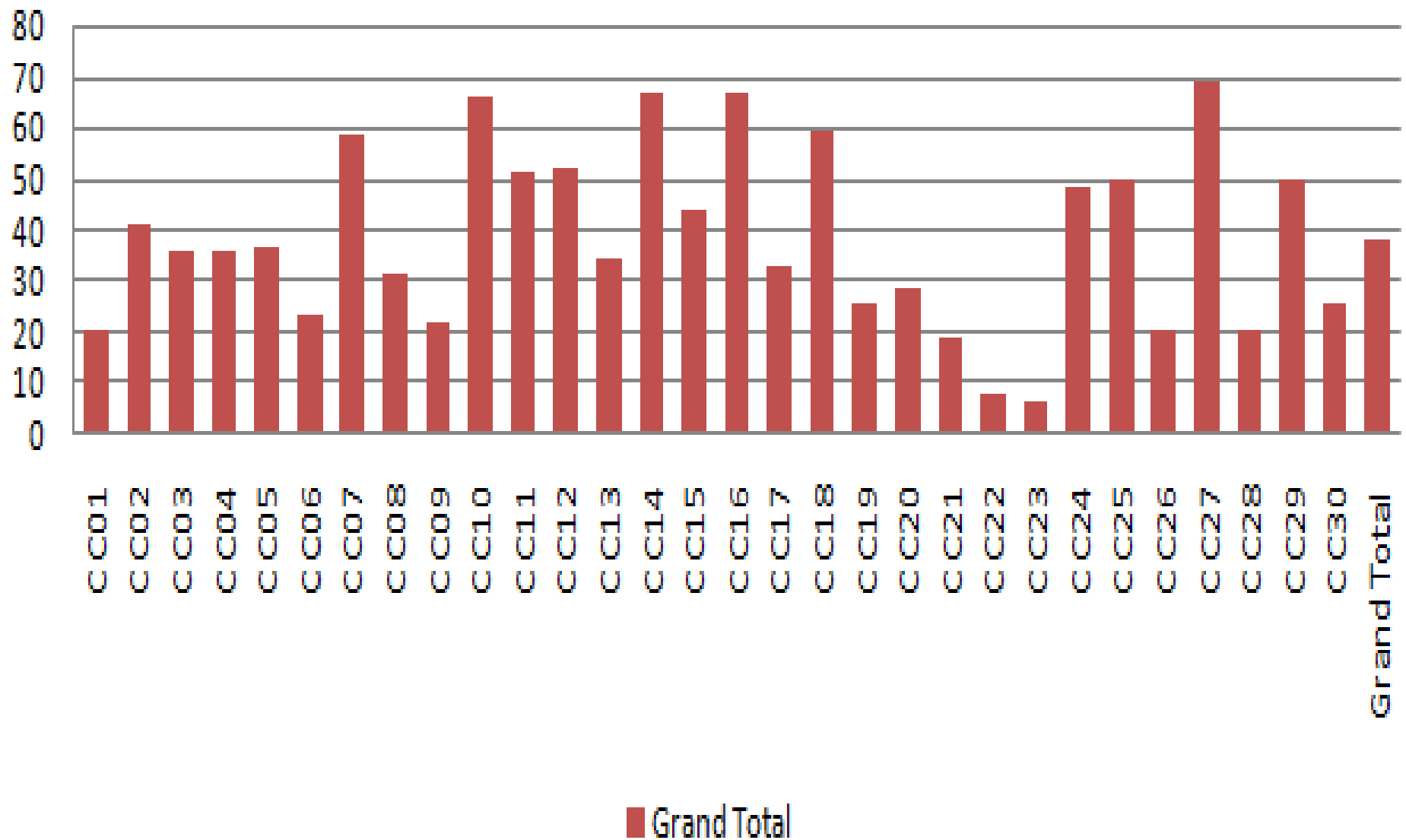
Competencies in Chemistry

SN	Topic	Competency	Code
1	Symbols, Formulae and Equations	Write word equations for different chemical reactions	CC 01
		Use formulae and valencies to deduce formulae of compounds with radicals	C C02
		Count the number of atom in the formula	C C03
		Convert word equations to balanced equations	C C04

Performance by school in chemistry



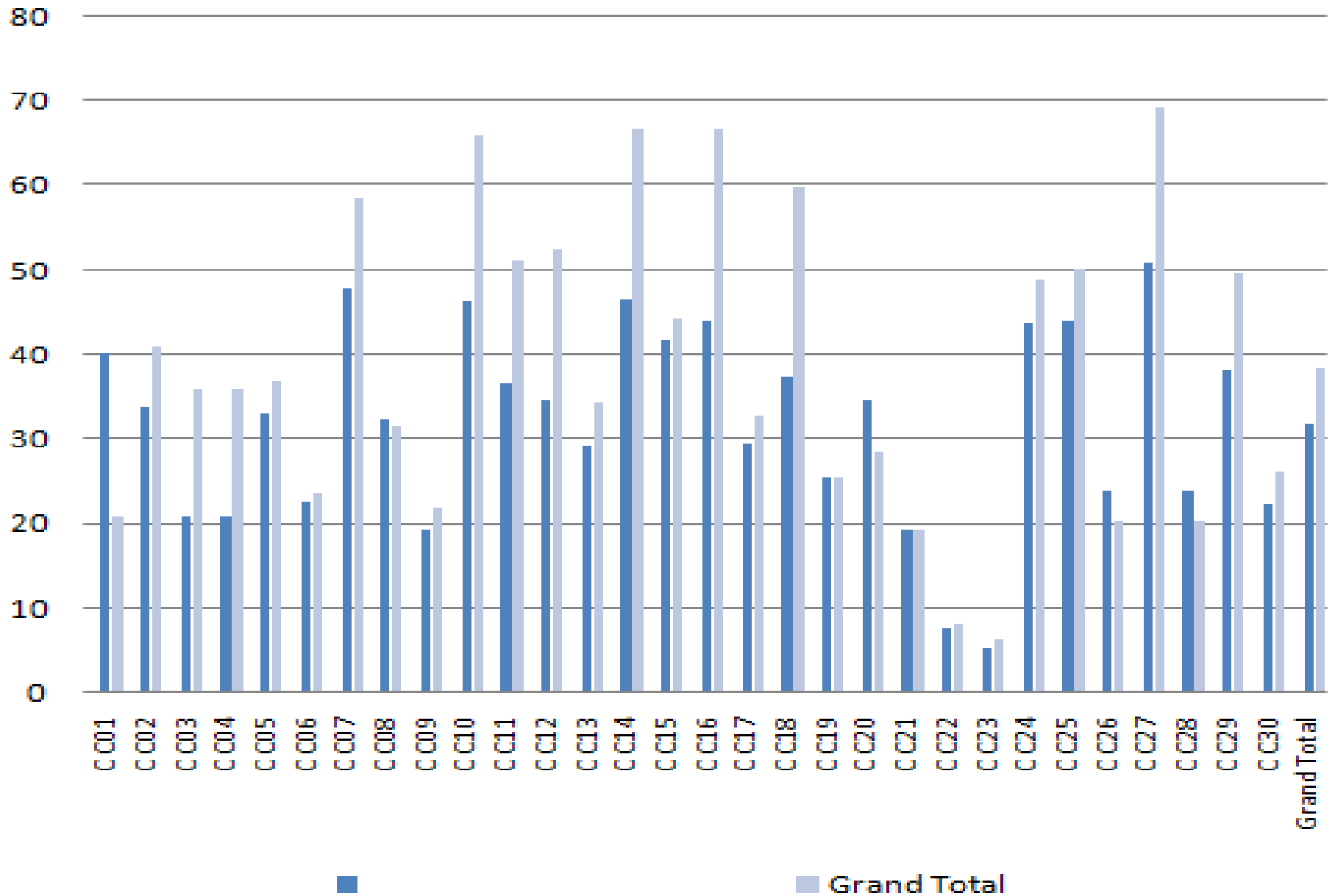
Performance by competency in chemistry



Competency with highest and lowest % attainment at National level-Chemistry

SN	Topics	Competency	Code	Remarks
1	Air and Water	List common air pollutants (carbon monoxide, oxides of nitrogen, sulphur dioxide)	C C27	Competency with highest % attainment
2	Salts	State the uses of salt for example: Calcium sulphate in plaster of Paris	C C23	Competency with lowest % attainment

School performance by competency in chemistry as compared to national average



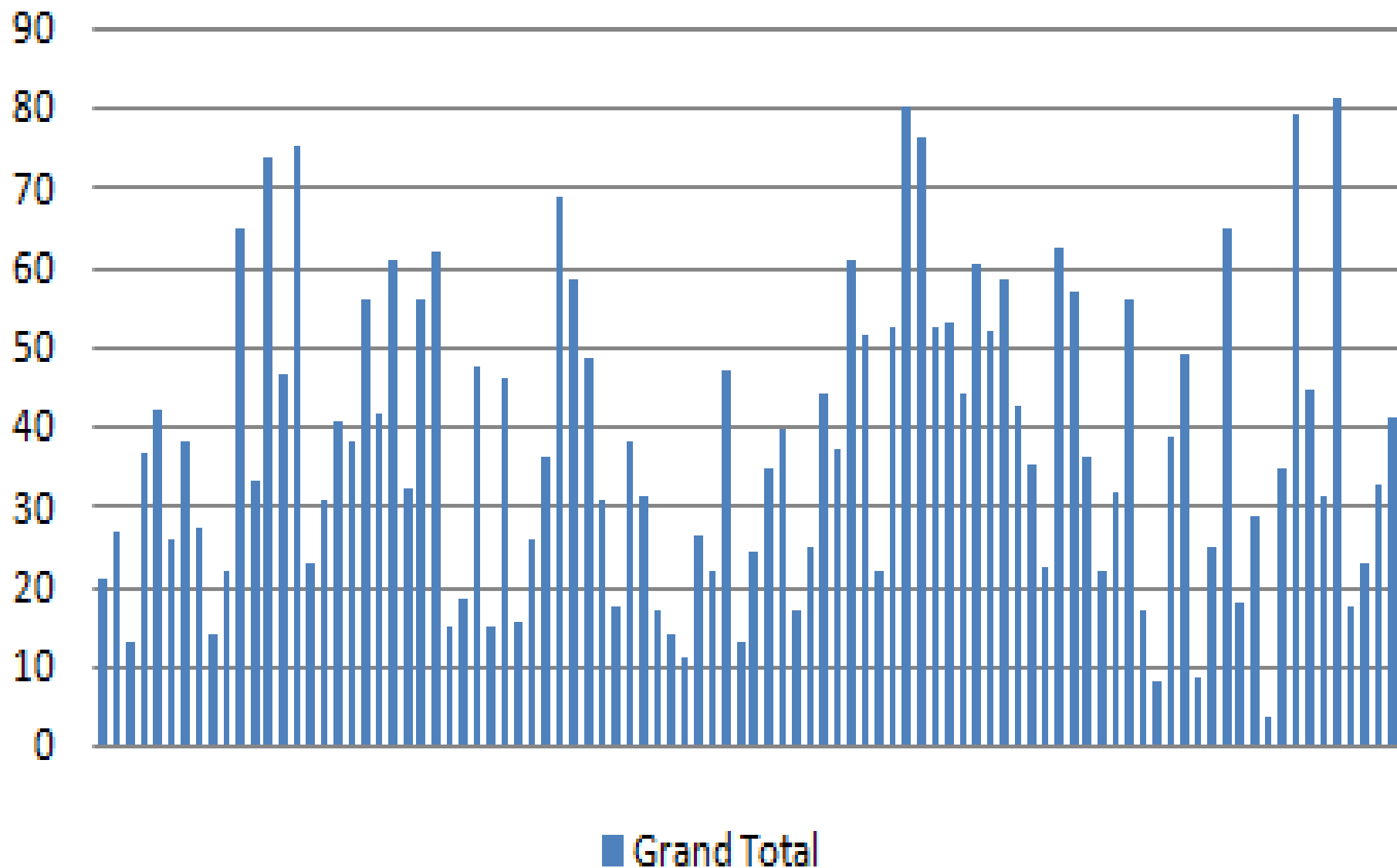
Largest difference in % attainment of school as compared to
National average -Chemistry

SN	Topics	Competency	Code	Remarks
1	Symbols, Formulae and Equations	Write word equations for different chemical reactions	CC 01	Higher than the National average
2	Metals and Reactivity Series	Action of Magnesium, Zinc, Iron and Copper with dilute acids	C C16	Lower than the National average
3	Mixtures and their Separation	Experimental techniques: All separation techniques as specified above in the syllabus	C C18	Lower than the National average

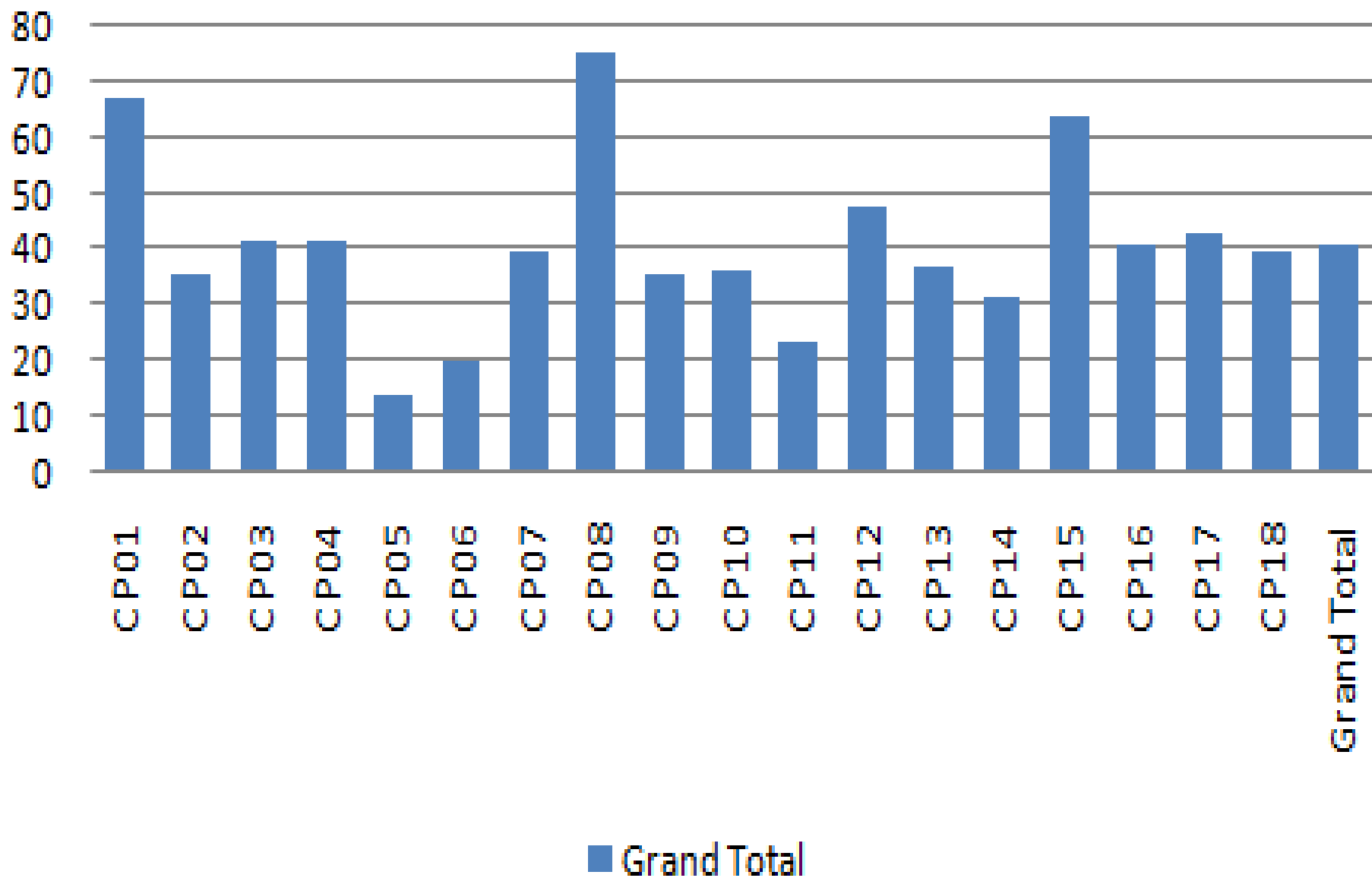
Competencies in Physics

SN	Topic	Competency	Code
1	Measurements	Choose the appropriate apparatus for the measurement of length, mass, volume, time and temperature	C P 01
		Read measuring instruments (metre rule, ruler, vernier calipers, electronic balance, measuring cylinders, digital stopwatch, thermometer etc) accurately	C P 02
		Express and record measurements in their correct units	C P 03
		Enumerate a few precautions taken during measurement	C P 04

Performance by school in Physics



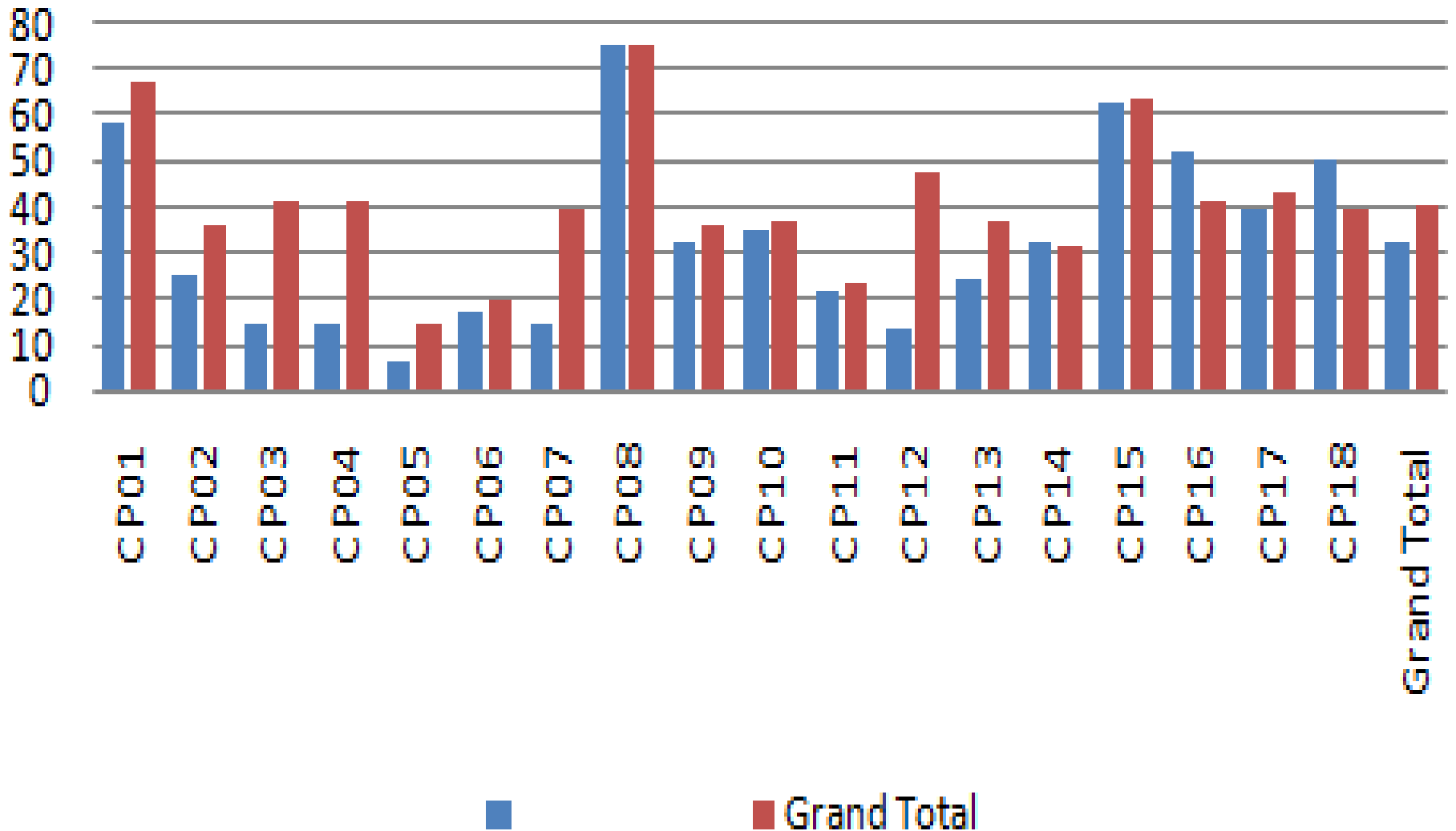
Performance by competency in Physics



Competency with highest and lowest % attainment at National level-Physics

SN	Topics	Competency	Code	Remarks
1	Motion	Employ defining equations of speed, velocity, and acceleration in simple problems	C P 08	Competency with highest % attainment
2	Measurements	Explain that pressure is caused by the action of force on an area	C P 05	Competency with lowest % attainment

School Performance by competency as compared to national average in Physics



Largest difference in % attainment of school as compared to National average -Physics

SN	Topics	Competency	Code	Remarks
1	Electricity	Set up simple circuits	C P 16	Higher than the National average
2	Reflection and Refraction	Describe how non-luminous objects are seen	C P 12	Lower than the National average