# TI-nspire CAS Crossword

Teachers Teaching with Technology™
Professional Development from Texas Instruments

## Teacher Answers

7 8 9 **10** **11** 12

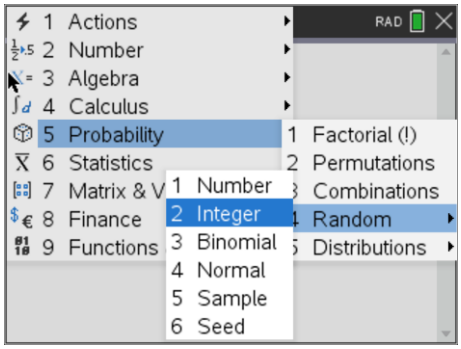
TI-Nspire | How To | Student | 50 min

## Introduction

The purpose of this activity is to become more familiar with the menus within the TI-Nspire CX II CAS. Clues for the crossword refer to the **application** and menu location where the answer can be found. The the number of characters available for the answer is supplied in the clue (#). Compare this information with the commands available in the specified menu.

## Example 1

**Clue**: Calculator > Probability > Random (6)




The first part of the clue identifies the application:

**Calculator**

The second part of the clue is the first menu selection:

Calculator > **Probability**

The third part of the clue is the second menu selection:

Calculator > Probability > **Random**

The final part of the clue refers to the number of letters.

Calculator > Probability > Random **(6)**

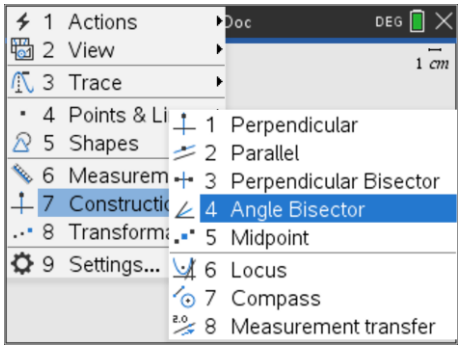
There are three options here:

Number, Normal or Sample.

You need more information about some of the other letters before answering this question.

## Example 2

**Clue**: Geometry > Construction [& 5 Across] (5, 8)




The first part of the clue identifies the application:

**Geometry**

The second part of the clue is the first menu selection:

**Construction**

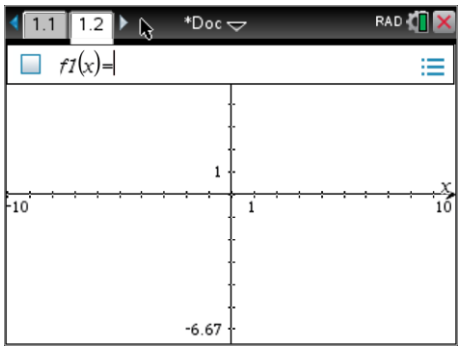
The third part of the clue means the required menu selection contains more than one word. In this case one of the words is also cited for '5 Across'.

In the fourth part of the clue (5, 8) says the two words have 5 and 8 letters, the 5 is underlined, so this clue aligns the 5 letter word.



Author: P. Fox

Start a new TI-Nspire document and insert a Calculator Application. Press **CTRL + I** and insert a Graphs application, notice that the tab now shows 1.2, this refers to “Problem 1” and “Page 2”. This activity refers to the Calculator, Graphs, Notes and Lists and Spreadsheet applications, only one copy of each is required. The menu in each application is different, referring to functionality specific to the application.




**Navigation**:

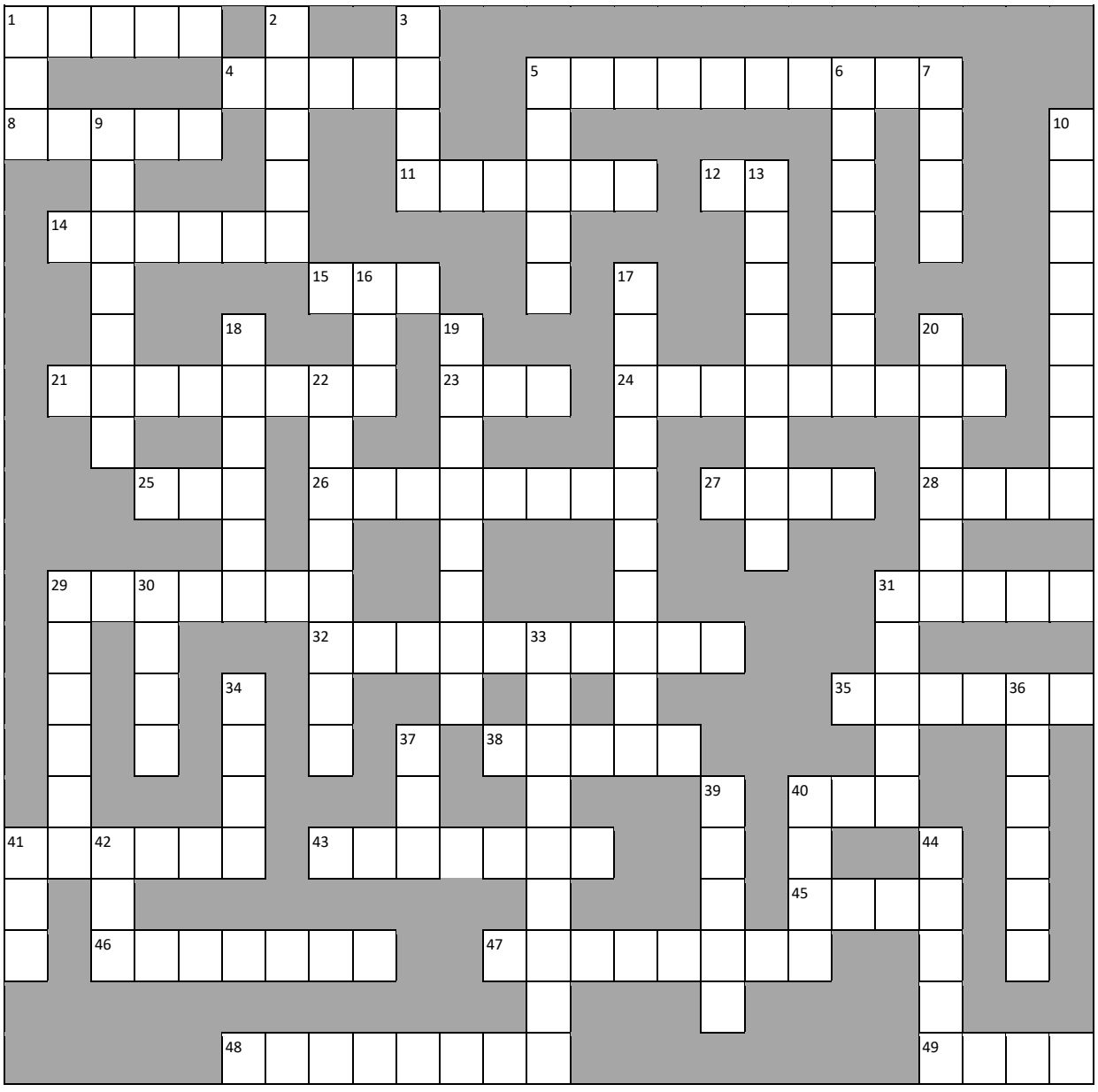
Ctrl + Right = Next Page

Ctrl + Left = Previous Page

Ctrl + Up = Document View (Select desired application)

Press [ESC] to progressively retreat from menu selections

Use number keys to quickly access menu item number





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## Across

1. **Graphs** > Geometry > Measurement (5)
4. **Calculator** > Algebra (5)
5. **Calculator** > Calculus > Series [& 11 Across] (6, 10)
8. **Notes** > Insert [& 37 Down] * (5, 3)
11. **Calculator** > Calculus > Series [& 5 Across] (6, 10)
12. **Calculator** > Functions & Programs > Control (2)
14. **Graphs** > Analyse Graph > Analyse Conics (6)
15. **Geometry** > Points & Lines [& 35 Across] (6, 3)
21. **Graphs** > View {& 38 Across] (5, 8)
23. **Calculator** > Matrix & Vector > Element Operations [& 25 Across] (3, 3)
24. **Calculator** > Probability (9)
25. **Calculator** > Matrix & Vector > Element Operations [& 23 Across] (3, 3)
26. **Geometry** > Shapes (8)
27. **Graphs** > Window / Zoom [& 40 Across] (4, 3)
28. **Graphs** > Actions (4)
29. **Geometry** > Points & Lines (7)
31. **Notes** > Templates (5)
32. **Graphs** > Analyse Graph (10)
35. **Geometry** > Points & Lines [& 15 Across] (6, 3)
38. **Graphs** > View {& 21 Across] (5, 8)
40. **Graphs** > Window / Zoom [& 27 Across] (4, 3)
41. **Lists & Spreadsheet** > Data > List Maths (6)
43. **Graphs** > Analyse Graph (7)
45. **Geometry** > Points & Lines (4)
46. **Geometry** > Points & Lines (7)
47. **Geometry** > Construction (8)
48. **Calculator** > Actions > Lock [& 48 Across] (4, 8)
49. **Calculator** > Probability > Random (4)

## Down

1. **Calculator** > Calculus (3)
2. **Geometry** > Construction (5)
3. **Lists & Spreadsheet** > Data > List Operations (4)
5. **Graphs** > Graph Entry/Edit (5)
6. **Calculator** > Probability > Random (7)
7. **Calculator** > Actions > Lock [& 48 Across] (4, 8)
9. **Notes** > Insert > Comment (7)
10. **Geometry** > Construction (8)
13. **Graphs** > Graph Entry/Edit (8)
16. **Geometry** > Points & Lines (3)
17. **Geometry** > Transformation (10)
18. **Graphs** > Analyse Graph > Analyse Conics * (6)
19. **Graphs** > Graph Entry/Edit > Equation Template (8)
20. **Calculator** > Number (6)
22. **Graphs** > Geometry > Transformation (8)
29. **Calculator** > Probability > Random (6)
30. **Graphs** > View > Grid [& 42 Down] (4, 3)
31. **Graphs** > Geometry > Points & Lines (5)
33. **Graphs** > Actions (9)
34. **Lists & Spreadsheet** > Data > List Maths (4)
36. **Geometry** > Measurement (6)
37. **Notes** > Insert [& 8 Across] * (5, 3)
39. **Graphs** > Geometry > Measurement (6)
40. **Lists & Spreadsheet** > Data (4)
41. **Lists & Spreadsheet** > Data > List Operations (3)
42. **Graphs** > View > Grid [& 30 Down] (4, 3)
44. **Calculator** > Algebra (5)

* These questions assume the calculator language has been set to English (UK). The language setting changes some words, such as “Maths” (UK) compared with “Math” (US) and commands, such as “Highest Common Factor” (UK) for “Greatest Common Divisor” (US). The language setting can be changed from the home screen (Option 5).



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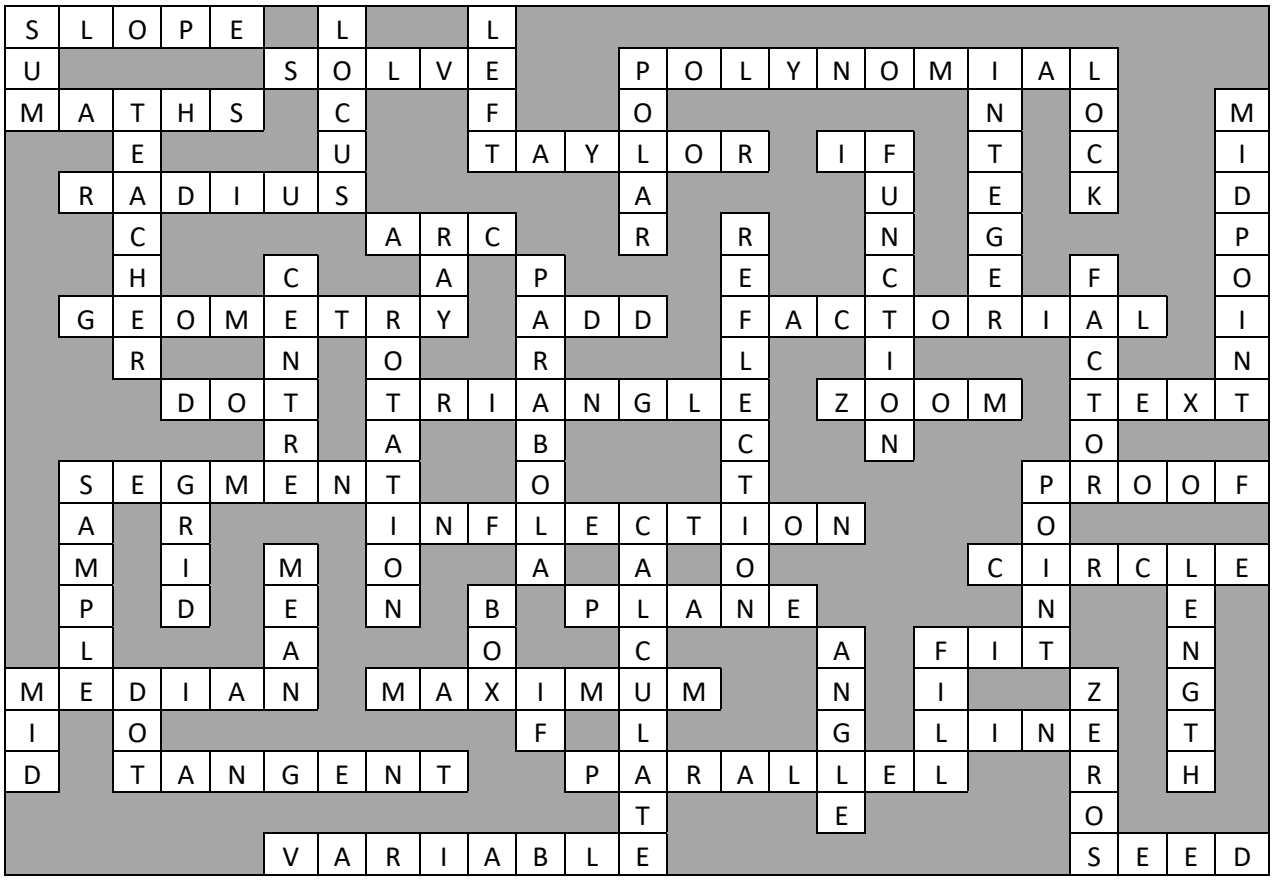
## Comments

The purpose of this activity is for students to be able to quickly and easily navigate a TI-Nspire document and associated menus. Students do NOT need to know any mathematics in order to complete the cross-word puzzle… it has been tested on a Grade 6 student! Students should be encouraged to navigate between pages rather than continually adding applications, no more than 5 pages are required.

Students can use the Navigation pad to make menu selections, however after years of observing students it is generally more expeditious to use the number associated with the item. In some cases, where the menu contains a large number of items, it may be quicker to press the 'up' arrow to jump through to the last item in the menu.

Students may also like to use Ctrl + Up to see the entire document, then use the navigation pad to select the desired application within the document. With the exception of the Notes and Calculator applications, all others are easy to identify from this view.



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