TI-nspire CAS Crossword

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:
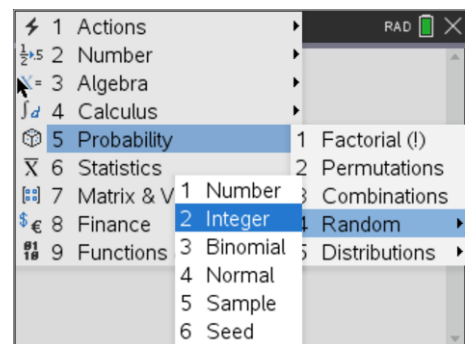>   Calculator > Probability > **Random**

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)

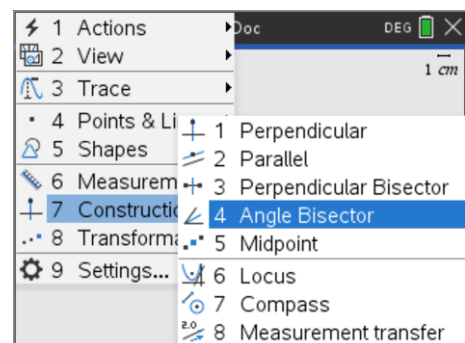The first part of the clue identifies the application:
>   **Geometry**

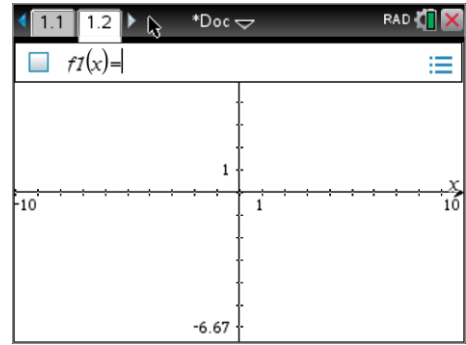The second part of the clue is the first menu selection:
>   **Construction**

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.
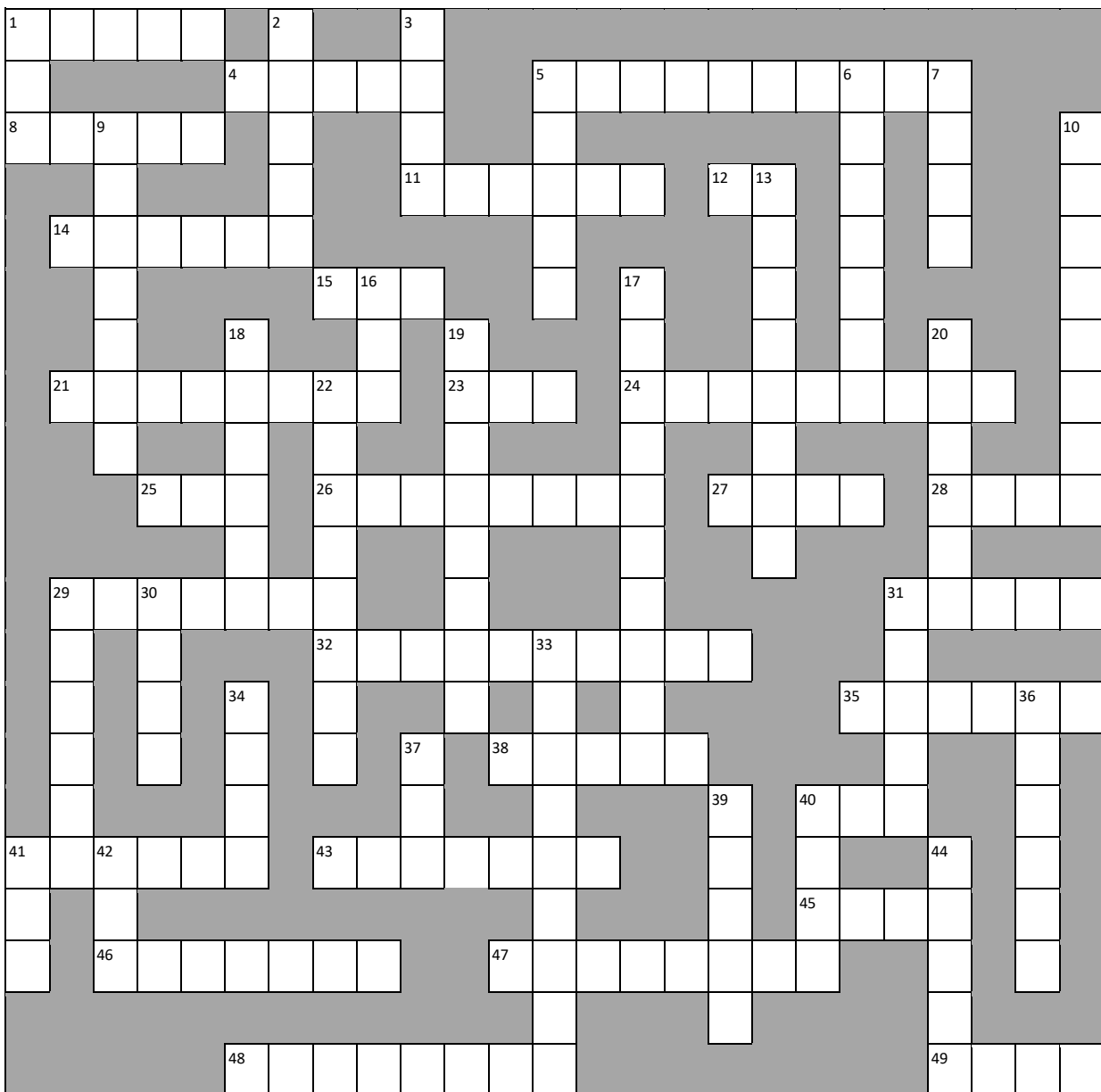
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TEXAS INSTRUMENTS

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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TEXAS INSTRUMENTS

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)

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* 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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TEXAS INSTRUMENTS