




A cartoon illustration of a young girl with blonde hair in a ponytail, wearing a pink shirt and purple skirt, sitting at a desk and using a computer. The computer monitor displays the NIE Webpage logo, which includes the text 'NIE' and 'NATIONAL INSTITUTE OF EDUCATION'.

WHAT'S NEW?

TASK CARDS

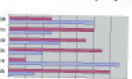


SWEET AS

Task Card 1

WATER USAGE

The annual water requirement for a crop of sugar cane is estimated to be around 1500 mm (150 cm). Climate differences between regions within the Australian Sugar industry the amount of water used need to require to meet the water require to varies. The graph below shows an example of these regions requirement.



Annual Irrigation Requirements in Australian Sugar Regions

Region	Water (mm)
NSW	1500
Southern	1000
Central	1000
North-West	1000
Victoria	1000
WA	1000

Task Card 1

1. Calculate the percentage of rainfall versus irrigation for each region. (100% = 1500mm)

- If the Northern/ Southern region's rainfall divided, how many differences in irrigation will be required to reach the 1500 mm?
- Calculate the total amount of irrigation water used by all regions.
- Each region has different production outputs. Check the results for the Northern Region's different water requirements.

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2. How many cups of sugar can be made from 1500mm of irrigation?

3. How many cups of sugar can be made from 1000mm of irrigation?

4. How many cups of sugar can be made from 500mm of irrigation?

5. How many cups of sugar can be made from 250mm of irrigation?

6. How many cups of sugar can be made from 125mm of irrigation?

7. How many cups of sugar can be made from 62.5mm of irrigation?

8. How many cups of sugar can be made from 31.25mm of irrigation?

9. How many cups of sugar can be made from 15.625mm of irrigation?

10. How many cups of sugar can be made from 7.8125mm of irrigation?

11. How many cups of sugar can be made from 3.90625mm of irrigation?

12. How many cups of sugar can be made from 1.953125mm of irrigation?

13. How many cups of sugar can be made from 0.9765625mm of irrigation?

14. How many cups of sugar can be made from 0.48828125mm of irrigation?

15. How many cups of sugar can be made from 0.244140625mm of irrigation?

16. How many cups of sugar can be made from 0.1220703125mm of irrigation?

17. How many cups of sugar can be made from 0.06103515625mm of irrigation?

18. How many cups of sugar can be made from 0.030517578125mm of irrigation?

19. How many cups of sugar can be made from 0.0152587890625mm of irrigation?

20. How many cups of sugar can be made from 0.00762939453125mm of irrigation?

21. How many cups of sugar can be made from 0.003814697265625mm of irrigation?

22. How many cups of sugar can be made from 0.0019073486328125mm of irrigation?

23. How many cups of sugar can be made from 0.00095367431640625mm of irrigation?

24. How many cups of sugar can be made from 0.000476837158203125mm of irrigation?

25. How many cups of sugar can be made from 0.0002384185791015625mm of irrigation?

26. How many cups of sugar can be made from 0.00011920928955078125mm of irrigation?

27. How many cups of sugar can be made from 0.000059604644775390625mm of irrigation?

28. How many cups of sugar can be made from 0.0000298023223876953125mm of irrigation?

29. How many cups of sugar can be made from 0.00001490116119384765625mm of irrigation?

30. How many cups of sugar can be made from 0.000007450580596923828125mm of irrigation?

31. How many cups of sugar can be made from 0.0000037252902984619140625mm of irrigation?

32. How many cups of sugar can be made from 0.00000186264514923095703125mm of irrigation?

33. How many cups of sugar can be made from 0.000000931322574615478515625mm of irrigation?

34. How many cups of sugar can be made from 0.0000004656612873077392578125mm of irrigation?

35. How many cups of sugar can be made from 0.00000023283064365386962890625mm of irrigation?

36. How many cups of sugar can be made from 0.000000116415321826934814453125mm of irrigation?

37. How many cups of sugar can be made from 0.0000000582076609134674072265625mm of irrigation?

38. How many cups of sugar can be made from 0.00000002910383045673370361328125mm of irrigation?

39. How many cups of sugar can be made from 0.000000014551915228366851806640625mm of irrigation?

40. How many cups of sugar can be made from 0.0000000072759576141834259033203125mm of irrigation?

41. How many cups of sugar can be made from 0.00000000363797880709171295166015625mm of irrigation?

42. How many cups of sugar can be made from 0.000000001818989403545856475830078125mm of irrigation?

43. How many cups of sugar can be made from 0.0000000009094947017729282379150390625mm of irrigation?

44. How many cups of sugar can be made from 0.00000000045474735088646411895751953125mm of irrigation?

45. How many cups of sugar can be made from 0.000000000227373675443232059478759765625mm of irrigation?

46. How many cups of sugar can be made from 0.0000000001136868377216160297393798828125mm of irrigation?

47. How many cups of sugar can be made from 0.00000000005684341886080801486968994140625mm of irrigation?

48. How many cups of sugar can be made from 0.000000000028421709430404007434844970703125mm of irrigation?

49. How many cups of sugar can be made from 0.0000000000142108547152020037174224853515625mm of irrigation?

50. How many cups of sugar can be made from 0.00000000000710542735760100185871124267578125mm of irrigation?

51. How many cups of sugar can be made from 0.000000000003552713678800500929355621337890625mm of irrigation?

52. How many cups of sugar can be made from 0.0000000000017763568394002504646778106689453125mm of irrigation?

53. How many cups of sugar can be made from 0.000000000000888178419700125232338905333447265625mm of irrigation?

54. How many cups of sugar can be made from 0.0000000000004440892098500626161694526667236328125mm of irrigation?

55. How many cups of sugar can be made from 0.00000000000022204460492503130808472633336181640625mm of irrigation?

56. How many cups of sugar can be made from 0.000000000000111022302462515654042363166680908203125mm of irrigation?

57. How many cups of sugar can be made from 0.0000000000000555111512312577270211181583344541015625mm of irrigation?

58. How many cups of sugar can be made from 0.00000000000002775557561562886351055907916722705078125mm of irrigation?

59. How many cups of sugar can be made from 0.0000000000000138777878078144317552795395836136453125mm of irrigation?

60. How many cups of sugar can be made from 0.00000000000000693889390390721587763976979180682265625mm of irrigation?

61. How many cups of sugar can be made from 0.000000000000003469446951953607938819884895903412890625mm of irrigation?

62. How many cups of sugar can be made from 0.0000000000000017347234759768039694099424479517064



To put students to the test, there will be a weekly challenge requiring them to use the newspaper and other multi-media channels to complete activities of varying levels of difficulty. It will give them a chance to explore how the newspaper uses information and ideas relating to significant events and issues.

The Front Page

The first thing you usually see when you pick up a newspaper is the front page. Some say that this is what sells the paper, therefore it has to be appealing to attract a reader to buy it. How the front page of a newspaper is presented determines its appeal. Look at the front page of your newspaper and answer these.

Challenge

1. In the masthead, what is shown?
2. Measure the size of the advertising strap on the bottom of the front page.
3. Is the lead story a local, national or international story?
4. Why do you think the lead story is 'news-worthy' and therefore on the front page?
5. How does the headline fit the story? Rewrite the headline.
6. Is the lead story continued on another page in the paper? If so, on which page?
7. Write a caption for the photograph on the front page.
8. Looking only on the front page, what else will you find in the newspaper?

NEXT WEEK: Fierce Floods