

Four in a line: Ratio

An activity for two or four pupils in two teams of two. See download for accompanying printable resources.

Content: Ratio of one quantity to another

Key language

The **ratio of** apple sweets to banana sweets is two **to** one.

Context

There are 184 fruit sweets in a packet. The sweets have different fruit flavours. In the packet, there are: 30 strawberry sweets, 25 blackcurrant sweets, 24 apple sweets, 20 orange sweets, 18 pineapple sweets, 16 cherry sweets, 15 lime sweets, 12 banana sweets, 10 lemon sweets, 8 peach sweets, 6 mango sweets and 5 raspberry sweets.

What is the ratio of one kind of fruit sweet to another kind of fruit sweet?

Instructions

- 1 Cut the cards into individual cards.
- 2 One pupil or team has the yellow cards and the other pupil or team has the green cards.
- 3 Place the number cards face down in two piles.
- 4 The yellow team takes the top card from their pile and places it on a correct rectangle on the board. When they put the card down they must say a sentence (e.g. "The ratio of orange sweets to banana sweets is five to three.").
- 5 The green team then places their card and says a sentence.
- 6 The aim of the game is to get four cards of your colour in a line – across, down or diagonally.
- 7 The winner is the first pupil or team to get four of their colour in a line.


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Board

1. There are 30 strawberry sweets and 20 orange sweets.	2. There are 24 apple sweets and 18 pineapple sweets.	3. There are 30 strawberry sweets and 12 banana sweets.	4. There are 24 apple sweets and 12 banana sweets.	5. There are 18 pineapple sweets and 6 mango sweets.	6. There are 12 banana sweets and 8 peach sweets.
7. There are 30 strawberry sweets and 18 pineapple sweets.	8. There are 24 apple sweets and 8 peach sweets.	9. There are 30 strawberry sweets and 15 lime sweets.	10. There are 25 blackcurrant sweets and 15 lime sweets.	11. There are 30 strawberry sweets and 24 apple sweets.	12. There are 18 pineapple sweets and 12 banana sweets.
13. There are 20 orange sweets and 16 cherry sweets.	14. There are 12 banana sweets and 6 mango sweets.	15. There are 20 orange sweets and 15 lime sweets.	16. There are 20 orange sweets and 10 lemon sweets.	17. There are 20 orange sweets and 8 peach sweets.	18. There are 16 cherry sweets and 8 peach sweets.
19. There are 15 lime sweets and 6 mango sweets.	20. There are 24 apple sweets and 16 cherry sweets.	21. There are 15 lime sweets and 10 lemon sweets.	22. There are 25 blackcurrant sweets and 10 lemon sweets.	23. There are 10 lemon sweets and 6 mango sweets.	24. There are 16 cherry sweets and 12 banana sweets.
25. There are 8 peach sweets and 6 mango sweets.	26. There are 20 orange sweets and 12 banana sweets.	27. There are 15 lime sweets and 5 raspberry sweets.	28. There are 25 blackcurrant sweets and 20 orange sweets.	29. There are 30 strawberry sweets and 10 lemon sweets.	30. There are 15 lime sweets and 12 banana sweets.

Four in a line: Ratio

Cards



The ratio is 2 to 1	The ratio is 3 to 2	The ratio is 4 to 3	The ratio is 5 to 4	The ratio is 5 to 3	The ratio is 5 to 2
The ratio is 2 to 1	The ratio is 3 to 2	The ratio is 4 to 3	The ratio is 5 to 4	The ratio is 5 to 3	The ratio is 5 to 2
The ratio is 2 to 1	The ratio is 3 to 2	The ratio is 4 to 3	The ratio is 5 to 4	The ratio is 5 to 3	The ratio is 5 to 2
The ratio is 2 to 1	The ratio is 3 to 2	The ratio is 4 to 3	The ratio is 5 to 4	The ratio is 5 to 3	The ratio is 5 to 2
The ratio is 2 to 1	The ratio is 3 to 2	The ratio is 3 to 1	The ratio is 3 to 1	The ratio is 3 to 1	The ratio is 3 to 1

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The ratio is 2 to 1	The ratio is 3 to 2	The ratio is 4 to 3	The ratio is 5 to 4	The ratio is 5 to 3	The ratio is 5 to 2
The ratio is 2 to 1	The ratio is 3 to 2	The ratio is 3 to 1	The ratio is 3 to 1	The ratio is 3 to 1	The ratio is 3 to 1

