Converting Ratios

* Step 1: Find out how many times the number on one side goes into the other
* Step 2: Use this number amount and multiply this with the other number to find the missing number

**Find the missing numbers:**

1. 7:8 = \_\_:40
2. 16:32 = 1:\_\_
3. 9:5 = \_\_:45
4. 44:12 = 11:\_\_
5. 100:100 = 1:\_\_
6. 42:\_\_ = 7:6
7. 19:\_\_ = 19:12
8. \_\_:180 = 2:3
9. 32:8 = \_\_:1
10. 9000:\_\_ = 10:7

Line Division

This is used to find an intersecting point on a line graph

* Step 1: Simplify the ratio so that the total number of parts equals the amount of lines on the graph MINUS the line which you will mark.
* Step 2: Using the ratio, count along using the first number, make your mark and count along using the next number.
* Step 3: Your mark should on the line which divides the two numbers of the ratio on either side.

Which point divides the line A-H in the following ratios?

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| --- | --- | --- | --- | --- | --- | --- |
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|  |  |  |  |  |  |  |

A B C D E F G H

**a** 1:6 \_\_\_ **b** 3:4 \_\_\_ **c** 4:3 \_\_\_ **d** 2:5 \_\_\_ **e** 12:2 \_\_\_ **f** 10:4 \_\_\_

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

1 2 3 4 5 6 7 8

**a** 6:8 \_\_\_ **b** 4:10 **c** 4:3 \_\_\_ **d** 2:12 **e** 2:5 \_\_\_ **f** 5:2 \_\_\_