Date **T: express quotients as decimals and fractions**

A quotient is a posh maths word for the answer to a division question.

When we divide we sometimes get a remainder. This remainder can be shown as a whole number.
Example: 13 ÷ 2 = 6r1

However, this remainder can also be shown as a fraction or a decimal
Example: 13 ÷ 2 = $6\ ^{1}/_{2}$ or 13 ÷ 2 = 6.5

To calculate **what fraction** a remainder is you:

- make the divisor (the number you are dividing by) the bottom number
- make the remainder the top number

To calculate **what decimal** a remainder is you:

- can convert the fraction to a percentage and use this to get the decimal

  OR
- you might just know what it is because you are getting used to working with the common fractions and decimals e.g. 1/2 = 0,5, 1/4 = 0.25, 1/5 = 0.2, 1/10 = 0.1, 3/4 = 0.75 and so on

For each of these questions give the answer in **3 different ways:**

a) with the remainder as a **whole number**
b) with the remainder as a **fraction**
c) with the remainder as a **decimal**

Questions

1) 5 ÷ 2
2) 9 ÷ 2
3) 13 ÷ 4
4) 23 ÷ 4
5) 22 ÷ 5
6) 49 ÷ 5
7) 71 ÷ 10
8) 59 ÷ 10

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a) with the remainder as a **whole number**
b) with the remainder as a **fraction**
c) with the remainder as a **decimal**

Questions

1) 5 ÷ 2	1a) 2r1	1b) 2 1/2	1c) 2.5
2) 9 ÷ 2	2a) 4r1	2b) 4 1/2	2c) 4.5
3) 13 ÷ 4	3a) 3r1	3b) 3 1/4	3c) 3.25
4) 23 ÷ 4	4a) 5r3	4b) 5 3/4	4c) 5.75
5) 22 ÷ 5	5a) 4r2	5b) 4 2/5	5c) 5.4
6) 49 ÷ 5	6a) 9r4	6b) 9 4/5	6c) 9.8
7) 71 ÷ 10	7a) 7r1	7b) 7 1/10	7c) 7.1
8) 59 ÷ 10	8a) 5r9	8b) 5 9/10	8c) 5.9