Question 1. The whole shape is 100%. Work out the percentage of the shaded part of each shape.

Year 7 Homework Due: 09/10/14

1. ……………% b) ............... % c) …………… %%

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|  |  |

 d) ……………% e) …………… %

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
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**Question 2. Percentage without a calculator. Work out:**

1. 10% of £200 = b) 5 % of £200= c) 15% of £200=

 d) 10% of £90 = e) 20 % of £90= f) 30% of £90=

 g) 35% of £80 = h) 60 % of £120= i) 55% of £40=

Question 3. Percentages with a calculator (show all your workings)

1. In a school of 400 pupils, 53% are boys, how many pupils are girls?
2. A new born baby's body is 75% water.  If a new born baby weighs 3000g, how many grams of water does it contain?
3. David had £230 before spending 25% of his money on clothes, how much does he have now?

**Extension**

Shops add **VAT** to the basic price of goods to find the selling price that the customers will be asked to pay. In a sale, a shop reduces the selling price by a certain percentage to set the sale price. Calculate the sale price of each of these items.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Item | Basic price | VAT rate  | Sale discount | Sale price |
| TV | £220 | 17.5% | 14% |  |
| DVD player | £180 | 17.5% | 20% |  |