

Number - Percentages Non-Calculator

Q1

A jacket can be bought in a shop or online.

<p style="text-align: center;"><u>Shop price</u></p> <p style="text-align: center;">Jacket, usually £75</p> <p style="text-align: center;">Sale, $\frac{1}{5}$ off</p>

<p style="text-align: center;"><u>Online price</u></p> <p style="text-align: center;">Jacket £50</p> <p style="text-align: center;">plus 15% postage and packing</p>
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Which method of buying the jacket is cheaper, and by how much?
Show all your working clearly.

_____ is cheaper by £_____ [5]

Q2

60% of the members of a youth club are girls.
There are 12 boys in the youth club.

How many members are there in the youth club altogether?

_____ [4]

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Which method of buying the jacket is cheaper, and by how much?

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$$\text{Shop } 5 \overline{) 75} \begin{array}{r} 15 \\ \underline{50} \\ 25 \end{array}$$

$$75 - 15 = £60$$

$$10\% \text{ of } £50 = £5$$

$$5\% \text{ of } £50 = £2.50$$

$$15\% \text{ of } £50 = £7.50$$

Total cost

$$£50 + £7.50$$

$$= £57.50$$

$$£60 - £57.50 = £2.50$$

Online is cheaper by £ 2.50 [5]

Q2

60% of the members of a youth club are girls.

There are 12 boys in the youth club.

How many members are there in the youth club altogether?

60% girls so 40% boys

40% is 12

so 10% is 3

so 100% is 30

30

[4]