## Impact of Cost on an Investment

The tables below demonstrate the large impact that costs and charges can have on an underlying value of an investment.

| Investment | ¢500,000 |  | Cost A | 0.30\% |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Investment A |  |  |  |  |  |
| Period | Initial Value | Return | Cost | Cost (£) | Final Value |
| Year 1 | Ł500,000 | 20\% | 0.30\% | £1,800.00 | ¢598,200.00 |
| Year 2 | ¢598,200 | 15\% | 0.30\% | £2,063.79 | £685,866.21 |
| Year 3 | ¢685,866 | 12\% | 0.30\% | £2,304.51 | ¢765,865.64 |
| Year 4 | ¢765,866 | 17\% | 0.30\% | £2,688.19 | ¢893,374.62 |
| Year 5 | ¢893,375 | 6\% | 0.30\% | £2,840.93 | £944,136.16 |
| Year 6 | ¢944,136 | -5\% | 0.30\% | £2,690.79 | £894,238.57 |
| Year 7 | ¢894,239 | -10\% | 0.30\% | £2,414.44 | ¢802,400.26 |
| Year 8 | ¢802,400 | 2\% | 0.30\% | £2,455.34 | £815,992.93 |
| Year 9 | ¢815,993 | 10\% | 0.30\% | £2,692.78 | £894,899.44 |
| Year 10 | ¢894,899 | 16\% | 0.30\% | £3, I14.25 | £1,034,969.10 |


| Investment A |  |
| :--- | ---: |
| Final value (end of year 10) | $£ 1,034,969$ |
| Capital growth | $£ 534,969$ |
| Average return | $8.30 \%$ |
| Total cost | $£ 25,065$ |

Investment A has a yearly OCF of $0.30 \%$ while Investment B has a much larger OCF of $1.5 \%$.

With equivalent yearly rates of return for both investment A and B, the value of the Investment B is $£ 118,035$ less than the value of Investment A after 10 years.

| Cost B | 1.50\% |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Investment B |  |  |  |  |  |
| Period | Initial Value | Return | Cost | Cost (£) | Final Value |
| Year 1 | £500,000 | 20\% | 1.50\% | £9,000.00 | £591,000.00 |
| Year 2 | £591,000 | 15\% | 1.50\% | £10,194.75 | £669,455.25 |
| Year 3 | ¢669,455 | 12\% | 1.50\% | ¢11,246.85 | £738,543.03 |
| Year 4 | £738,543 | 17\% | 1.50\% | £12,961.43 | ¢851,133.92 |
| Year 5 | ¢851,134 | 6\% | 1.50\% | £13,533.03 | £888,668.92 |
| Year 6 | ¢888,669 | -5\% | 1.50\% | £12,663.53 | ¢831,571.94 |
| Year 7 | ¢831,572 | -10\% | 1.50\% | £11,226.22 | £737,188.53 |
| Year 8 | ¢737,189 | 2\% | 1.50\% | £11,278.98 | £740,653.31 |
| Year 9 | ¢740,653 | 10\% | 1.50\% | €12,220.78 | £802,497.87 |
| Year 10 | ¢802,498 | 16\% | 1.50\% | £13,963.46 | £916,934.06 |
|  |  |  |  |  |  |
| Investment B |  |  |  | Difference (A-B) |  |
| Final value (end of year 10) |  | ¢916,934 |  | Final Value | ¢118,035 |
| Capital growth |  | ¢416,934 |  | Total Cost | - $£ 93,224$ |
| Average return |  | 8.30\% |  |  |  |

This difference is due solely to the larger costs charged to Investment B of $£ 93,224$. These costs have a direct impact on the reduction in value of the underlying investment every year as well as a reduction in compounded gains.

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