

## Calculations with Percentages

Cut out and match each problem below with the correct diagram and calculations:

Problems:

<p>A furry caterpillar costs £40. A shop sells it at a discount of 15%. What is the new price?</p>	<p>A furry caterpillar costs £40 in the sale. It has been reduced by 15%. What was the original price?</p>
<p>A furry caterpillar costs £40 plus 15% post and package. What is the total cost?</p>	<p>A furry caterpillar costs £40 including 15% postage and packing. What is the cost of the caterpillar?</p>

Diagrams:

<table border="1"> <tr> <td>115%</td> <td>£40</td> </tr> <tr> <td>100%</td> <td>?</td> </tr> </table>	115%	£40	100%	?	<table border="1"> <tr> <td>100%</td> <td>£40</td> </tr> <tr> <td>85%</td> <td>?</td> </tr> </table>	100%	£40	85%	?
115%	£40								
100%	?								
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85%	£40								
100%	?								
100%	£40								
115%	?								

Calculations:

$40 \div 1.15$	$0.85 \times 40$
$40 + (0.15 \times 40)$	$40 - (0.15 \times 40)$
$40 \div 0.85$	$40 + 40 \div 10 + (40 \div 10 \div 2)$
$\frac{40}{85} \times 100$	$40 - 40 \times \frac{15}{100}$
$40 \times 1.15$	$40 \div 85 \times 100$
$40 \div 115 \times 100$	$\frac{40}{115} \times 100$