Question 1: Convert the following decimals to percentages

(a) 0.25  (b) 0.75  (c) 0.13  (d) 0.88
(e) 0.49  (f) 0.92  (g) 0.61  (h) 0.07
(i) 0.03  (j) 0.44  (k) 0.5   (l) 0.9
(m) 0.72  (n) 0.8   (o) 0.01  (p) 0.36

Question 2: Convert the following decimals to percentages

(a) 0.125 (b) 0.953 (c) 0.382 (d) 0.603
(e) 0.075 (f) 0.021 (g) 0.1425 (h) 0.9682
(i) 0.003 (j) 0.072 (k) 0.844 (l) 0.7003

Question 3: Convert the following recurring decimals to percentages

(a) 0.3333... (b) 0.6666... (c) 0.474747... (d) 0.808080...
(e) 0.8     (f) 0.1   (g) 0.52   (h) 0.123

Question 4: Convert the following decimals to percentages

(a) 1.63   (b) 1.25   (c) 1.8    (d) 1.01
(e) 2.5    (f) 2.97   (g) 3.15   (h) 3.82
(i) 4.7    (j) 10.62  (k) 15.8   (l) 10.08

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Decimals to Percentages
Video 125 on www.corbettmaths.com

Question 1: Match up any decimal and percentage that are equivalent. Not all the decimals and percentages will match up.

<table>
<thead>
<tr>
<th>Percentage</th>
<th>Decimal</th>
</tr>
</thead>
<tbody>
<tr>
<td>40%</td>
<td>0.4</td>
</tr>
<tr>
<td>15%</td>
<td>0.3</td>
</tr>
<tr>
<td>4%</td>
<td>1.5</td>
</tr>
<tr>
<td>150%</td>
<td>0.4</td>
</tr>
<tr>
<td>30%</td>
<td>0.9</td>
</tr>
</tbody>
</table>

Question 2: Arrange in order from smallest to largest.

(a) 0.4, 20%, 0.5, 45%, 0.09
(b) 0.59, 85%, 20%, 0.8, 13%
(c) 29%, 0.3, 35%, 0.33, 25%

Question 3: Jessica and Daniel are incorrect. Explain why.

Jessica and Daniel are incorrect because they did not understand how to convert a decimal to a percentage. To change a decimal to a percentage, you multiply by 100 and add the percent symbol. For example, 0.15 is equal to 15%. Jessica and Daniel were incorrect because they did not multiply by 100.

Question 4: Which is larger, 0.306 or 31%? Explain your answer.

0.306 is larger than 31%. 31% is equivalent to 0.31, which is smaller than 0.306.

Answers

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