

ASCENDING -DESCENDING ORDER-SET-1

1	<p>Write in order of size, smallest first,</p> <p style="text-align: center;">$\frac{5}{98}$, 0.049, 5%.</p> <p style="text-align: right;"><i>Answer</i><.....<..... [2]</p>			
MS-1	0.049 < 5% < 5/98 o.e.	2	M1 for <i>figs</i> 51... seen after 0, SC1 for 2 correct entries	2
2	<p>Write the numbers 0.5^2, $\sqrt{0.5}$, 0.5^3 in order with the smallest first.</p> <p style="text-align: right;"><i>Answer</i> < < [2]</p>			
MS-2	0.5 ³ < 0.5 ² < √0.5	2*	M1 for 0.25, 0.7.... and 0.125 seen matched	
3	<p>Write the following in order of size, smallest first.</p> <p style="text-align: center;">$\frac{\pi}{4}$ $\frac{1}{\sqrt{2}}$ $\frac{3}{4}$ sin 47°</p> <p style="text-align: right;"><i>Answer</i> < < < [2]</p>			
MS-3	1/√2, sin 47, ¾, π/4	2*	M1 for correct conversion to decimals 0.78(53..) 0.70(71...) 0.75 0.73(13..)	

4	<p>Write the following in order of size, smallest first.</p> <p style="text-align: center;">$\cos 100^\circ$ $\sin 100^\circ$ $\tan 100^\circ$</p> <p style="text-align: right;"><i>Answer</i> < < [2]</p>		
MS-4	tan100 , cos100, sin100	2*	M1 for correct conversion to decimals - 5.67, - 0.174, 0.985 2sf or better SC1 all correct but reversed
5	<p>Write the following in order of size, smallest first.</p> <p style="text-align: center;">$\frac{399}{401}$ $\frac{698}{701}$ $\frac{598}{601}$</p> <p style="text-align: right;"><i>Answer</i> < < [2]</p>		
MS-5	$\frac{598}{601}$ $\frac{399}{401}$ $\frac{698}{701}$	2	M1 correct decimals seen 0.99501.... 0.9957(2...) 0.99500... First and third must be to at least 5sf Accept these decimals in answer space
6	<p>Write the following in order of size, smallest first.</p> <p style="text-align: center;">$\frac{399}{401}$ $\frac{598}{601}$ $\frac{698}{701}$</p> <p style="text-align: right;"><i>Answer</i> < < [2]</p>		

MS-6	$\frac{598}{601} \quad \frac{399}{401} \quad \frac{698}{701}$	2	M1 correct decimals seen 0.99501.... 0.9957(2...) 0.99500... First and third must be to at least 5sf Accept these decimals in answer space
7	Write the following in order of size, smallest first. $\sqrt{\frac{9}{17}} \qquad \frac{5}{7} \qquad 72\% \qquad \left(\frac{4}{3}\right)^{-1}$ <i>Answer</i> < < < [2]		
MS-7	$\frac{5}{7} \quad 72\% \quad \sqrt{\frac{9}{17}} \quad \left(\frac{4}{3}\right)^{-1}$	2	M1 correct decimals 0.727(6...) 0.71(4...) 0.72 0.75
8	Write the following in order of size, smallest first. $74\% \qquad \sqrt{\frac{8}{15}} \qquad \frac{18}{25} \qquad \left(\frac{27}{20}\right)^{-1}$ <i>Answer</i> < < < [2]		
MS-8	$\frac{18}{25} \quad \sqrt{\frac{8}{15}} \quad 74\% \quad \left(\frac{27}{20}\right)^{-1}$	2	M1 correct decimals 0.74 0.730(2...) 0.72 0.740(7...)

9	<p>Write the numbers in order of size with the smallest first.</p> <p style="text-align: center;">$\sqrt{10}$ 3.14 $\frac{22}{7}$ π</p> <p style="text-align: right;"><i>Answer</i> < < < [2]</p>					
MS-9	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 5px;">$3.14 \quad \pi \quad \frac{22}{7} \quad \sqrt{10}$</td> <td style="width: 50%; padding: 5px;">2</td> </tr> </table>	$3.14 \quad \pi \quad \frac{22}{7} \quad \sqrt{10}$	2	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 5px;">2</td> <td style="width: 50%; padding: 5px;">M1 3.1428(...) and 3.16(2...) seen</td> </tr> </table>	2	M1 3.1428(...) and 3.16(2...) seen
$3.14 \quad \pi \quad \frac{22}{7} \quad \sqrt{10}$	2					
2	M1 3.1428(...) and 3.16(2...) seen					
10	<p>Write the following in order of size, smallest first.</p> <p style="text-align: center;">$\frac{2}{\sqrt{3}}$ $2 - \sqrt{3}$ $\sqrt{3}$ $2 - \frac{\sqrt{3}}{2}$</p> <p style="text-align: right;"><i>Answer</i> < < < [2]</p>					
MS-10	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 5px;">$2 - \sqrt{3}, 2 - \frac{\sqrt{3}}{2}, \frac{2}{\sqrt{3}}, \sqrt{3}$</td> <td style="width: 50%; padding: 5px;">2</td> </tr> </table>	$2 - \sqrt{3}, 2 - \frac{\sqrt{3}}{2}, \frac{2}{\sqrt{3}}, \sqrt{3}$	2	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 5px;">2</td> <td style="width: 50%; padding: 5px;">M1 correct decimals seen</td> </tr> </table>	2	M1 correct decimals seen
$2 - \sqrt{3}, 2 - \frac{\sqrt{3}}{2}, \frac{2}{\sqrt{3}}, \sqrt{3}$	2					
2	M1 correct decimals seen					
11	<p>Write the following in order of size, smallest first.</p> <p style="text-align: center;">0.47 $\frac{8}{17}$ $\sqrt{0.22}$ $\tan 25^\circ$</p> <p style="text-align: right;"><i>Answer</i> < < < [2]</p>					
MS-11	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 5px;">$\tan 25 < \sqrt{0.22} < 0.47 < \frac{8}{17}$</td> <td style="width: 50%; padding: 5px;">2</td> </tr> </table>	$\tan 25 < \sqrt{0.22} < 0.47 < \frac{8}{17}$	2	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 5px;">2</td> <td style="width: 50%; padding: 5px;">M1 correct conversion to decimals 0.466, 0.469, 0.471</td> </tr> </table>	2	M1 correct conversion to decimals 0.466, 0.469, 0.471
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