

Smarter Balanced Assessment Item Illustrating 8.NS.A.2

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Select True or False to indicate whether each comparison is true.

	True	False
$\sqrt{37} < 5\frac{1}{4}$	<input type="checkbox"/>	<input type="checkbox"/>
$3\pi > 3\sqrt{3}$	<input type="checkbox"/>	<input type="checkbox"/>
$\sqrt{5} > \frac{5}{7}$	<input type="checkbox"/>	<input type="checkbox"/>
$\frac{15}{\sqrt{10}} > 8.38$	<input type="checkbox"/>	<input type="checkbox"/>

Answer Key

F, T, T, F

Elaboration on Alignment

This non-calculator item capitalizes nicely on the progression of learning through grade 8. For example, students can use their understanding of multiplication in the second row by noticing that both expressions have a factor of 3 and using that to evaluate the inequality based on the size of the other factor. This concept of comparing the size of a product to the size of one factor on the basis of the other factor was first emphasized in the grade 5 NF domain. Here we see this concept again, but now using numbers appropriate to grade 8.

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