

COMPLETE THE PROBLEM IN EACH BOX. EARN POINTS AS OUTLINED BELOW! ☺

ALL rows, columns, and diagonals correct: + .4/20 on quiz

6-7 rows, columns, and diagonals correct: + .3/20 on quiz

4-5 rows, columns, and diagonals correct: + .2/20 on quiz

1-4 rows, columns, and diagonals correct: + .1/20 on quiz

<p>The sum of a rational number & an irrational number is irrational. Which expression supports this statement?</p> <p><input type="radio"/> $\sqrt{3} + \sqrt{3}$</p> <p><input type="radio"/> $1 + \sqrt{2}$</p> <p><input type="radio"/> $5 + 7$</p> <p><input type="radio"/> $3 + \frac{1}{2}$</p>	<p>Which statement correctly describes why the product $0.123(0.\overline{23})$ is a rational number?</p> <p><input type="radio"/> It is a repeating decimal.</p> <p><input type="radio"/> It is a terminating decimal.</p> <p><input type="radio"/> It can be written as a perfect square.</p> <p><input type="radio"/> It is a non-terminating, non-repeating decimal.</p>	<p>Describe why $0.34 \cdot \sqrt{15}$ is irrational.</p> <p><input type="radio"/> It is irrational because the product can be expressed as a non-terminating, non-repeating decimal.</p> <p><input type="radio"/> It is irrational because the product can be expressed as a ratio of two integers.</p> <p><input type="radio"/> It is rational because the product can be expressed as a non-terminating decimal.</p>
<p>The sum of an irrational number & a rational number is irrational. Select the expressions that prove this to be true.</p> <p><input type="checkbox"/> $-16+4.72$</p> <p><input type="checkbox"/> $\frac{25}{12} + \sqrt{30}$</p> <p><input type="checkbox"/> $\sqrt{10} + \sqrt{33}$</p> <p><input type="checkbox"/> $0.\overline{77} + \sqrt{\frac{6}{7}}$</p> <p><input type="checkbox"/> $\sqrt{2} + 0.125$</p>	<p>The sum or product of two rational numbers is rational. Select the expressions that support this statement.</p> <p><input type="checkbox"/> $-14\sqrt{144}$</p> <p><input type="checkbox"/> $\frac{15}{4} + 0.\overline{23}$</p> <p><input type="checkbox"/> $\sqrt{19} + \frac{5}{9}$</p> <p><input type="checkbox"/> $5.817 \cdot \sqrt{15}$</p> <p><input type="checkbox"/> $\pi\sqrt{49}$</p>	<p>The sum of an irrational number & a rational number is irrational. Select the expressions that prove this to be true.</p> <p><input type="checkbox"/> $\sqrt{\frac{93}{112}} + \sqrt{64}$</p> <p><input type="checkbox"/> $3.55 + \frac{45}{23}$</p> <p><input type="checkbox"/> $\sqrt{45} + \frac{45}{23}$</p> <p><input type="checkbox"/> $\sqrt{43} + \sqrt{90}$</p> <p><input type="checkbox"/> $0.\overline{44} + 0.\overline{66}$</p>
<p>The product of two rational numbers is rational. Select the expressions that prove this to be true.</p> <p><input type="checkbox"/> $0.123 \cdot \frac{4}{5}$</p> <p><input type="checkbox"/> $\frac{3}{7} \cdot \sqrt{56}$</p> <p><input type="checkbox"/> $0.\overline{9} \cdot 3.8$</p> <p><input type="checkbox"/> $\sqrt{17} \cdot \sqrt{7}$</p> <p><input type="checkbox"/> $0 \cdot \sqrt{30}$</p>	<p>Which statement correctly describes why $(\frac{2}{3})\sqrt{50}$ is irrational?</p> <p><input type="radio"/> It is a terminating decimal.</p> <p><input type="radio"/> It is a repeating decimal.</p> <p><input type="radio"/> It can be written as a ratio of two integers.</p> <p><input type="radio"/> It is a non-terminating, non-repeating decimal.</p>	<p>Which statement correctly describes $\pi + \sqrt{14}$?</p> <p><input type="radio"/> It is a repeating decimal.</p> <p><input type="radio"/> It is a terminating decimal.</p> <p><input type="radio"/> It can be written as a ratio of two integers.</p> <p><input type="radio"/> It is a non-terminating, non-repeating decimal.</p>