

Exploring Sums and products of numbers

If we multiply two rational numbers what is the result, a rational or irrational number?

Guess: _____

Try these:

$$6 \times 23 = \underline{\quad}$$

$$\frac{2}{3} \times \frac{3}{5} = \underline{\quad}$$

$$\sqrt{9} \cdot 7 = \underline{\quad}$$

$$\frac{5}{8} \cdot \sqrt[3]{64} = \underline{\quad}$$

What result did you get? _____

If we add two rational numbers what is the result, a rational or irrational number?

Guess: _____

Try these:

$$8 + 17 = \underline{\quad}$$

$$\frac{5}{8} + \frac{7}{4} = \underline{\quad}$$

$$2 + \sqrt{4} = \underline{\quad}$$

$$\frac{7}{10} + \sqrt[3]{8} = \underline{\quad}$$

What result did you get? _____

If we add a rational number to an irrational number what is the result, a rational or irrational number?

Guess: _____

Try these:

$$8 + \sqrt{17} = \underline{\quad}$$

$$\frac{2}{3} + \pi = \underline{\quad}$$

$$-7 + e = \underline{\quad}$$

$$\frac{5}{4} + \sqrt[3]{5} = \underline{\quad}$$

What result did you get? _____

If we multiply a rational number to an irrational number what is the result, a rational or irrational number?

Guess: _____

Try these:

$$-3 \cdot \sqrt{5} = \underline{\quad}$$

$$11 \cdot \pi = \underline{\quad}$$

$$\frac{5}{7} \cdot \sqrt[4]{521} = \underline{\quad}$$

$$\frac{2}{9} \cdot \sqrt{13} = \underline{\quad}$$

What result did you get? _____