

NAME \_\_\_\_\_

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## Quiz 1

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1. Which of the properties, commutative, associative, or distributive, were used to obtain the simplification:

$$(7\sqrt{2})^2 = 98$$

in your workshop yesterday? [Hint: Think about the steps used to get that result.]

The commutative and associative properties.

2. Circle the numbers which are rational:

45.32

-7.328328...

3.232332333...

$\sqrt{-2}$

3. Simplify the expression  $\left(\frac{81p^{12}}{16q^4}\right)^{\frac{3}{4}}$ .

$$\frac{27p^9}{8q^3}$$

4. Simplify the expression  $(2\sqrt{3}\sqrt[3]{5})^6$ .

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