

Multiplication and Division of Radicals

02/29/2012

Student Name: _____

Class: _____

Date: _____

Instructions: Read each question carefully and select the correct answer.

1. Rationalize the denominator.

$$\frac{-6}{\sqrt{7}-5}$$

A. $6\sqrt{7} + \frac{30}{18}$	C. $-\sqrt{7} + 5$
B. $\frac{45.6}{18}$	D. $\frac{-6\sqrt{7}-30}{-18}$

- A. A
B. B
C. C
D. D

2. Rationalize the denominator and simplify.

$$\frac{\sqrt{1125x^3y^2}}{5x^2y^3}$$

A. $\frac{225\sqrt{x}}{y}$	B. $\frac{15\sqrt{xy}}{y}$
C. $\frac{3\sqrt{5x}}{y^2x}$	D. $\frac{15\sqrt{x}}{y}$

- A. A
B. B
C. C
D. D

3. Rationalize the denominator and simplify.

$$\frac{\sqrt{5xz}}{15x^2z^2}$$

A. $\frac{\sqrt{3z}}{3xz}$	C. $\frac{\sqrt{3z}}{3 x z}$
B. $\frac{1}{3x^2z}$	D. $5xz\sqrt{3}$

- A. A
B. B
C. C
D. D

4. Find the product of two multiplied by the square root of five, and seven multiplied by the square root of seventeen. After you have found the product, approximate square roots in the product to the nearest tenth.

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|----|----------------|
| A. | $70\sqrt{3.4}$ |
| B. | 133 |
| C. | 39.7 |
| D. | 128.8 |

- A. A
B. B
C. C
D. D