Algebra I Practice N.RN.B.3: Operations with Radicals 3
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NAME:_____

Divide:

1. $\frac{\sqrt{65}}{\sqrt{5}}$

   [A] 13 [B] $\sqrt{60}$ [C] $\sqrt{13}$ [D] 60

2. $\frac{\sqrt{15}}{\sqrt{3}}$

   [A] $\sqrt{12}$ [B] 12 [C] 5 [D] $\sqrt{5}$

3. $\frac{\sqrt{77}}{\sqrt{11}}$

   [A] $\sqrt{7}$ [B] $\sqrt{66}$ [C] 66 [D] 7

4. $\frac{\sqrt{6}}{\sqrt{2}}$

   [A] $\sqrt{3}$ [B] 3 [C] 4 [D] $\sqrt{4}$

5. Find the quotient and completely simplify the radical expression $\frac{\sqrt{72}}{\sqrt{6}}$.

6. Find the quotient and completely simplify the radical expression $\frac{\sqrt{300}}{\sqrt{20}}$.

7. Find the quotient and completely simplify the radical expression $\frac{\sqrt{360}}{\sqrt{12}}$.

8. Find the quotient and completely simplify the radical expression $\frac{\sqrt{30}}{\sqrt{10}}$.

9. Find the quotient and completely simplify the radical expression $\frac{\sqrt{36}}{\sqrt{6}}$.

10. Find two pairs of integers a and b such that $\frac{\sqrt{a}}{\sqrt{b}} = 4\sqrt{5}$.

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[1] C

[2] D

[3] A

[4] A

[5] $2\sqrt{3}$

[6] $\sqrt{15}$

[7] $\sqrt{30}$

[8] $\sqrt{3}$

[9] $\sqrt{6}$

[10] Answers may vary. Sample:
$a = 160,\ b = 2;\ a = 240,\ b = 3$