



**THIRD SPACE
LEARNING**

Rationalize The Denominator Worksheet

Algebra

Grades 6 to 8

Questions

Name:

Date:

1 Rationalize the denominator: $\frac{\sqrt{15}}{\sqrt{3}}$

Answer

2 Rationalize the denominator: $\frac{1}{\sqrt{5}}$

Answer

3 Rationalize the denominator: $\frac{7}{\sqrt{2}}$

Answer

4 Rationalize the denominator: $\frac{3\sqrt{14}}{\sqrt{7}}$

Answer

5 Rationalize the denominator: $\frac{4\sqrt{5}}{\sqrt{3}}$

Answer

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6 Rationalize the denominator: $\frac{10}{\sqrt{6}}$

Answer

7 Rationalize the denominator: $\frac{9\sqrt{7}}{\sqrt{5}}$

Answer

8 Rationalize the denominator: $\frac{2\sqrt{6}}{\sqrt{2}}$

Answer

9 Rationalize the denominator: $\frac{6}{\sqrt{10}}$

Answer

10 Rationalize the denominator: $\frac{5\sqrt{3}}{\sqrt{8}}$

Answer

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11 Rationalize the denominator: $\frac{4\sqrt{3}}{\sqrt{2}}$

Answer

12 Rationalize the denominator: $\frac{7}{\sqrt{12}}$

Answer

13 Rationalize the denominator: $\frac{\sqrt{20}}{\sqrt{5}}$

Answer

14 Rationalize the denominator: $\frac{6\sqrt{7}}{\sqrt{14}}$

Answer

15 Rationalize the denominator: $\frac{5\sqrt{18}}{\sqrt{3}}$

Answer

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16 Rationalize the denominator: $\frac{\sqrt{8}}{\sqrt{5}}$

Answer

17 Rationalize the denominator: $\frac{9}{\sqrt{11}}$

Answer

18 Rationalize the denominator: $\frac{\sqrt{15} + 2\sqrt{3}}{\sqrt{6}}$

Answer

19 Rationalize the denominator: $\frac{8\sqrt{3} - \sqrt{12}}{\sqrt{2}}$

Answer

20 Rationalize the denominator: $\frac{3\sqrt{10} + 5\sqrt{2}}{\sqrt{10}}$

Answer

Answers

Question number	Question	Answers	Standard
1	Rationalize the denominator: $\frac{\sqrt{15}}{\sqrt{3}}$	$\sqrt{5}$	8.EE.A.2
2	Rationalize the denominator: $\frac{1}{\sqrt{5}}$	$\frac{\sqrt{5}}{5}$	8.EE.A.2
3	Rationalize the denominator: $\frac{7}{\sqrt{2}}$	$\frac{7\sqrt{2}}{2}$	8.EE.A.2
4	Rationalize the denominator: $\frac{3\sqrt{14}}{\sqrt{7}}$	$3\sqrt{2}$	8.EE.A.2
5	Rationalize the denominator: $\frac{4\sqrt{5}}{\sqrt{3}}$	$\frac{4\sqrt{15}}{3}$	8.EE.A.2
6	Rationalize the denominator: $\frac{10}{\sqrt{6}}$	$\frac{5\sqrt{6}}{3}$	8.EE.A.2
7	Rationalize the denominator: $\frac{9\sqrt{7}}{\sqrt{5}}$	$\frac{9\sqrt{35}}{5}$	8.EE.A.2
8	Rationalize the denominator: $\frac{2\sqrt{6}}{\sqrt{2}}$	$\frac{2\sqrt{3}}{1} = 2\sqrt{3}$	8.EE.A.2
9	Rationalize the denominator: $\frac{6}{\sqrt{10}}$	$\frac{3\sqrt{10}}{5}$	8.EE.A.2
10	Rationalize the denominator: $\frac{5\sqrt{3}}{\sqrt{8}}$	$\frac{5\sqrt{6}}{4}$	8.EE.A.2
11	Rationalize the denominator: $\frac{4\sqrt{3}}{\sqrt{2}}$	$\frac{4\sqrt{6}}{2} = 2\sqrt{6}$	8.EE.A.2

Rationalize The Denominator Worksheet | Grades 6 to 8 | Answers

Question number	Question	Answers	Standard
12	Rationalize the denominator: $\frac{7}{\sqrt{12}}$	$\frac{7\sqrt{3}}{6}$	8.EE.A.2
13	Rationalize the denominator: $\frac{\sqrt{20}}{\sqrt{5}}$	$\sqrt{4} = 2$	8.EE.A.2
14	Rationalize the denominator: $\frac{6\sqrt{7}}{\sqrt{14}}$	$3\sqrt{2}$	8.EE.A.2
15	Rationalize the denominator: $\frac{5\sqrt{18}}{\sqrt{3}}$	$5\sqrt{6}$	8.EE.A.2
16	Rationalize the denominator: $\frac{\sqrt{8}}{\sqrt{5}}$	$\frac{\sqrt{40}}{5} = \frac{2\sqrt{10}}{5}$	8.EE.A.2
17	Rationalize the denominator: $\frac{9}{\sqrt{11}}$	$\frac{9\sqrt{11}}{11}$	8.EE.A.2
18	Rationalize the denominator: $\frac{\sqrt{15} + 2\sqrt{3}}{\sqrt{6}}$	$\frac{\sqrt{10} + 2\sqrt{2}}{2}$	8.EE.A.2
19	Rationalize the denominator: $\frac{8\sqrt{3} - \sqrt{12}}{\sqrt{2}}$	$3\sqrt{6}$	8.EE.A.2
20	Rationalize the denominator: $\frac{3\sqrt{10} + 5\sqrt{2}}{\sqrt{10}}$	$\frac{3\sqrt{100} + 5\sqrt{20}}{10}$ $= \frac{30 + 10\sqrt{5}}{10} = 3 + \sqrt{5}$	8.EE.A.2

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