

Name _____
Mr. Schlansky

Date _____
Geometry



Reducing Radicals

Perfect Squares

1. $\sqrt{45}$

2. $\sqrt{50}$

3. $\sqrt{162}$

1

4

9

16

25

4. $\sqrt{32}$

5. $\sqrt{48}$

6. $\sqrt{75}$

36

49

64

81

7. $\sqrt{48}$

8. $\sqrt{200}$

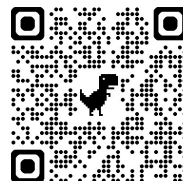
9. $\sqrt{98}$

100

10. $\sqrt{125}$

11. $\sqrt{147}$

12. $\sqrt{192}$



Name _____
Mr. Schlansky

Date _____
Geometry

Adding Radicals

Express each of the following in simplest radical form

1. $\sqrt{50} + \sqrt{50}$

2. $\sqrt{32} + \sqrt{32}$

3. $\sqrt{63} + \sqrt{28}$

4. $\sqrt{45} + \sqrt{125}$

5. $3\sqrt{18} + 2\sqrt{72}$

6. $5\sqrt{27} + 2\sqrt{75}$

Perfect Squares

1

4

9

16

25

36

49

64

81

100

7. $2\sqrt{200} + 2\sqrt{18}$

8. $4\sqrt{12} + 3\sqrt{48}$

Perfect Squares

1

4

9

16

25

36

49

64

81

100

9. $4\sqrt{80} + 2\sqrt{45} + 12$

10. $4\sqrt{75} + 8 + 3\sqrt{24}$

11. $3\sqrt{50} + 2\sqrt{75} + 4\sqrt{8}$

12. $2\sqrt{294} + 3\sqrt{216} + 2\sqrt{180} + 6$