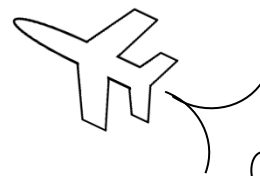


MAth on the Fly!



NAME: _____ DATE: _____

Simplifying Square Roots

Simplify each root, if possible.

1. $\sqrt{12}$

2. $\sqrt{45}$

3. $\sqrt{50}$

4. $\sqrt{18}$

5. $\sqrt{75}$

6. $\sqrt{28}$

7. $\sqrt{63}$

8. $\sqrt{32}$

9. $\sqrt{54}$

10. $\sqrt{72}$

11. $\sqrt{48}$

12. $\sqrt{27}$

13. $\sqrt{200}$

14. $\sqrt{405}$

15. $\sqrt{256}$

16. $\sqrt{46}$

17. $\sqrt{700}$

18. $\sqrt{99}$

19. $\sqrt{108}$

20. $\sqrt{576}$

21. $\sqrt{175}$

22. $\sqrt{76}$

23. $\sqrt{180}$

24. $\sqrt{96}$

SOLUTIONS

$$\boxed{1.} \quad \sqrt{12} = 2\sqrt{3}$$

$$\boxed{2.} \quad \sqrt{45} = 3\sqrt{5}$$

$$\boxed{3.} \quad \sqrt{50} = 5\sqrt{2}$$

$$\boxed{4.} \quad \sqrt{18} = 3\sqrt{2}$$

$$\boxed{5.} \quad \sqrt{75} = 5\sqrt{3}$$

$$\boxed{6.} \quad \sqrt{28} = 2\sqrt{7}$$

$$\boxed{7.} \quad \sqrt{63} = 3\sqrt{7}$$

$$\boxed{8.} \quad \sqrt{32} = 4\sqrt{2}$$

$$\boxed{9.} \quad \sqrt{54} = 3\sqrt{6}$$

$$\boxed{10.} \quad \sqrt{72} = 6\sqrt{2}$$

$$\boxed{11.} \quad \sqrt{48} = 4\sqrt{3}$$

$$\boxed{12.} \quad \sqrt{27} = 3\sqrt{3}$$

$$\boxed{13.} \quad \sqrt{200} = 10\sqrt{2}$$

$$\boxed{14.} \quad \sqrt{405} = 9\sqrt{5}$$

$$\boxed{15.} \quad \sqrt{256} = 16$$

$$\boxed{16.} \quad \sqrt{46} \text{ is reduced}$$

$$\boxed{17.} \quad \sqrt{700} = 10\sqrt{7}$$

$$\boxed{18.} \quad \sqrt{99} = 3\sqrt{11}$$

$$\boxed{19.} \quad \sqrt{108} = 6\sqrt{3}$$

$$\boxed{20.} \quad \sqrt{576} = 24$$

$$\boxed{21.} \quad \sqrt{175} = 5\sqrt{7}$$

$$\boxed{22.} \quad \sqrt{76} = 2\sqrt{19}$$

$$\boxed{23.} \quad \sqrt{180} = 6\sqrt{5}$$

$$\boxed{24.} \quad \sqrt{96} = 4\sqrt{6}$$