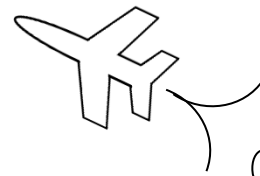




# MAth on the Fly!



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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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