

$$\sqrt{48}$$

$$4\sqrt{3}$$

$$\sqrt{125}$$

$$5\sqrt{5}$$

Pairs
perfect square

$$\sqrt{1183}$$

$$7 \quad 169$$

$$13\sqrt{7}$$

$$\textcircled{4} \quad \sqrt{14} \cdot \sqrt{2} = \sqrt{28}$$

$$2\sqrt{7}$$

$$\textcircled{5} \quad 3\sqrt{7} \cdot 4\sqrt{3} = 12\sqrt{21}$$

$$\textcircled{5} \quad \frac{\sqrt{24}}{\sqrt{9}} = \frac{2\sqrt{6}}{3}$$

$$\frac{\sqrt{6}}{\sqrt{3}}$$

$$\downarrow$$

$$\textcircled{6} \quad \frac{\sqrt{8}}{\sqrt{24}} = \frac{1}{\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}} = \frac{\sqrt{3}}{3}$$

$$1.7320508$$

$$3 \overline{) 1.7320508}$$

$$1.5$$

$$-23$$

$$\textcircled{44} \quad \frac{\sqrt{8}}{\sqrt{144}} = \frac{1}{\sqrt{144}} \cdot \sqrt{4}$$

$$\frac{\sqrt{4}}{144}$$

$$\textcircled{10} \quad \sqrt{27} + \sqrt{75} + 8\sqrt{3}$$

$$3x + 2x$$

$$3\sqrt{3} + 5\sqrt{3} + 8\sqrt{3}$$

SX

$$\boxed{16\sqrt{3}}$$

$$\textcircled{64} \quad \sqrt{27} \cdot \sqrt{75} = \sqrt{27 \cdot 75} \quad \sqrt{3} \cdot \sqrt{5} = \sqrt{15}$$

$$3\sqrt{3} \cdot 5\sqrt{3}$$

$$\cancel{9} \cdot \cancel{25}$$

$$15\sqrt{9}$$

$$3 \cdot 3 \cdot 5 = \boxed{45}$$

$$\boxed{45}$$

$$\textcircled{37} \quad (\sqrt{45} + 4)(2 - 3\sqrt{5})$$

$$\downarrow \quad \downarrow$$

$$(3\sqrt{5} + 4)(2 - 3\sqrt{5})$$

$$\boxed{6\sqrt{5}} - 9\sqrt{25} + 8 - 12\sqrt{5}$$

$$\boxed{-45}$$

$$\boxed{-6\sqrt{5} - 37}$$

$$\textcircled{432} \quad x^2 = (\sqrt{80} + \sqrt{45})(\sqrt{20} + \sqrt{125})$$