

SET A

DAY 24

$$1. \sqrt{8} = \sqrt{4 \cdot 2} = \boxed{2\sqrt{2}}$$

$$2. 7\sqrt{12} = 7\sqrt{4 \cdot 3} = 7 \cdot 2\sqrt{3} = \boxed{14\sqrt{3}}$$

$$3. \sqrt[3]{27x^6} = \boxed{3x^2}$$

$$4. \frac{1}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}} = \boxed{\frac{\sqrt{2}}{2}}$$

SET B

$$1. \sqrt{18} = \sqrt{9 \cdot 2} = \boxed{3\sqrt{2}}$$

$$2. 10\sqrt{8} = 10\sqrt{4 \cdot 2} = 10 \cdot 2\sqrt{2} = \boxed{20\sqrt{2}}$$

$$3. \sqrt{144x^{10}y^{12}} = \boxed{12x^5y^6}$$

$$4. \frac{3\sqrt{2}}{\sqrt{2}\sqrt{2}} = \boxed{\frac{3\sqrt{2}}{2}}$$

SET C

$$1. \sqrt{20} = \sqrt{4 \cdot 5} = \boxed{2\sqrt{5}}$$

$$2. -5\sqrt{8} = -5\sqrt{4 \cdot 2} = -5(2)\sqrt{2} = \boxed{-10\sqrt{2}}$$

$$3. \sqrt{36x^8y^{10}} = \boxed{6x^4y^5\sqrt{y}}$$

$$4. \frac{5\sqrt{7}}{\sqrt{7}\sqrt{7}} = \boxed{\frac{5\sqrt{7}}{7}}$$

SET D

$$1. \sqrt{700} = \sqrt{100 \cdot 7} = \boxed{10\sqrt{7}}$$

$$2. \frac{1}{3}\sqrt{18} = \frac{1}{3}\sqrt{9 \cdot 2} = \frac{1}{3}(3)\sqrt{2} = \boxed{\sqrt{2}}$$

$$3. \sqrt[4]{x^{12}y^{20}z^{33}} = \boxed{x^3y^5z^8\sqrt[4]{z}}$$

$$4. \frac{5\sqrt{3}}{\sqrt{3}\sqrt{3}} = \boxed{\frac{5\sqrt{3}}{3}}$$