

TEST 1

$$\begin{aligned} 1. \quad m + 81 &= 180 \\ m &= 99 \end{aligned}$$

Since vertical angles are equal:

$$n = 99$$

$$3p = 81$$

$$p = 27$$

$$\begin{aligned} 2. \quad 3x + 120 &= 180 \\ 3x &= 60 \\ x &= 20 \end{aligned}$$

Since vertical angles are equal:

$$6y = 120$$

$$y = 20$$

$$4z = 60$$

$$z = 15$$

$$\begin{aligned} 3. \quad x + 37^\circ &= 90^\circ \\ x &= 53^\circ \end{aligned}$$

$$\begin{aligned} 4. \quad P &= \frac{1}{2}(2)(\pi)(3) + \frac{1}{2}(2)(\pi)(4) + 48 \\ &= 3\pi + 4\pi + 48 \\ &= 7\pi + 48 = 69.98 \text{ in.} \end{aligned}$$

$$\begin{aligned} 5. \quad A &= \frac{60}{360} \cdot \pi(8)^2 \\ &= \frac{60}{360} \cdot 64\pi = 33.49 \text{ in.}^2 \end{aligned}$$

$$\begin{aligned} 6. \quad A_{\text{Base}} &= \frac{1}{2}\pi(3)^2 + (18)(8) \\ &= \frac{9}{2}\pi + 144 = 158.13 \text{ m}^2 \end{aligned}$$

$$\begin{aligned} V &= \frac{1}{3}A_{\text{Base}} \times H \\ &= \frac{1}{3}(158.13)(4) = 210.84 \text{ m}^3 \end{aligned}$$

$$\begin{aligned} 7. \quad A &= \frac{1}{2}(12)(8) - \frac{1}{2}(5)(2) - \frac{1}{2}(10)(3) - (2)(3) \\ &= 48 - 5 - 15 - 6 = 22 \text{ ft}^2 \end{aligned}$$

$$8. \quad A = 12(5) - \pi(2)^2 = 60 - 4\pi = 47.44 \text{ m}^2$$

$$\begin{aligned} 9. \quad A_{\text{Base}} &= \pi(5)^2 = 25\pi \text{ in.}^2 \\ V &= A_{\text{Base}} \times H \\ 750\pi &= (25\pi)H \\ H &= 30 \text{ in.} \end{aligned}$$

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$$\begin{aligned} 10. \quad &\text{Since angles opposite equal sides are equal angles,} \\ &a = 42. \end{aligned}$$

$$\begin{aligned} b + 42 + 42 &= 180 \\ b &= 96 \end{aligned}$$

$$\begin{aligned} 11. \quad 4 \times \overline{SF} &= 7 \\ \overline{SF} &= \frac{7}{4} \end{aligned}$$

$$3 \times \overline{SF} = y$$

$$3\left(\frac{7}{4}\right) = y$$

$$y = \frac{21}{4}$$

$$\begin{aligned} 12. \quad V &= \frac{2}{3}A_{\text{Base}} \times \text{height} \\ &= \frac{2}{3}[\pi(8)^2](16) \\ &= \frac{2}{3}(1024\pi) = 2143.57 \text{ cm}^3 \end{aligned}$$

$$S.A. = 4\pi r^2 = 4\pi(8)^2 = 803.84 \text{ cm}^2$$

$$13. \quad \frac{(x^2y)^0 x^2y}{x(y^{-3})^3} = \frac{x^2y}{xy^{-9}} = xy^{10}$$

$$14. \quad \frac{(x^3y^{-1})^{-2}z^{-2}}{(x^3zy^{-2})^3} = \frac{x^{-6}y^2z^{-2}}{y^{15}z^3y^{-10}} = x^{-6}y^{-3}z^{-7}$$

$$\begin{aligned} 15. \quad \frac{x^3y^2z^{-2}}{(xw^0)^{-2}z^{-1}x^2w^3} &= \frac{x^3y^2z^{-2}}{x^{-2}z^{-1}x^2w^3} \\ &= x^3y^2z^{-1}w^{-3} \end{aligned}$$

$$16. \quad -3^{-3} = -\frac{1}{3^3} = -\frac{1}{243}$$

$$17. \quad \frac{1}{-3^{-3}} = -3^3 = -27$$

$$\begin{aligned} 18. \quad -4^3 &= [-5^0 - (3 - 5) - 4] \\ &= -64 - [-1 + 2 - 4] = -64 - [-3] = -61 \end{aligned}$$

$$\begin{aligned} 19. \quad -[-3 - 5] &= (-3)^2 - 3^2 = -[-8] - 9 - 9 \\ &= -8 - 9 - 9 = -26 \end{aligned}$$

$$\begin{aligned} 20. \quad -3[-6^0 - 2(6 - 8) - 2^3] \\ &= -3[-1 - 2(-2) - 8] \\ &= -3[-1 + 4 - 8] = -3[-5] = 15 \end{aligned}$$

Algebra 2 Third Edition Test 8 Answers

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