

New

Assign #2

Book: pg 10: #7-13 odd, 19-25 odd, 29, 31, 39

$$\begin{aligned} 7. & 9(4+2) \\ & = 9(6) \\ & = \boxed{54} \end{aligned}$$

$$\begin{aligned} 21. & 4 + 2^2 - 15 + 4 \\ & = 4 + 4 - 15 + 4 \\ & = 8 - 15 + 4 \\ & = -7 + 4 \\ & = \boxed{-3} \end{aligned}$$

$$\begin{aligned} 9. & 25 \cdot 2 - 3 \\ & = 50 - 3 \\ & = \boxed{47} \end{aligned}$$

$$\begin{aligned} 23. & 5 + 9(3) \div 3 - 8 \\ & = 5 + 27 \div 3 - 8 \\ & = 5 + 9 - 8 \\ & = 14 - 8 \\ & = \boxed{6} \end{aligned}$$

$$\begin{aligned} 11. & (4-5)^5 \cdot 9 \\ & = (-1)^5 \cdot 9 \\ & = -1 \cdot 9 \\ & = \boxed{-9} \end{aligned}$$

$$\begin{aligned} 25. & [21 - (9-2)] \div 2 \\ & = [21 - 7] \div 2 \\ & = 14 \div 2 \\ & = \boxed{7} \end{aligned}$$

$$\begin{aligned} 13. & a=3 \quad b=-4 \quad c=5 \\ & a+c^2 \\ & = 3+5^2 \\ & = 3+25 \\ & = \boxed{28} \end{aligned}$$

$$\begin{aligned} 29. & \frac{14(8-15)}{2} \\ & = \frac{14(-7)}{2} \\ & = \frac{-98}{2} \\ & = \boxed{-49} \end{aligned}$$

$$\begin{aligned} 19. & 2(9+2) - 3 \\ & = 2(11) - 3 \\ & = 22 - 3 \\ & = \boxed{19} \end{aligned}$$

$$\begin{aligned} 31. & 4 + (49 \div 7) \times 8 \div 2 \\ & = 4 + 7 \times 8 \div 2 \\ & = 4 + 56 \div 2 \\ & = 4 + 28 \rightarrow \boxed{32} \end{aligned}$$

$$39. a = -5 \quad b = 0.25 \quad c = \frac{1}{2} \quad d = 4$$

$$\begin{aligned} & a + 10 \div c \\ & = -5 + 10 \div \frac{1}{2} \qquad 10 \div \frac{1}{2} = \frac{10}{1} \cdot \frac{2}{1} = \frac{20}{1} \\ & = -5 + 20 \\ & = \boxed{15} \end{aligned}$$

Book pg 16: # 9, 17, 21, 23, 25, 29, 31, 53, 55, 57

$$\begin{aligned} 9. & \sqrt{49 + 8} \\ & = \boxed{\sqrt{57} \quad \mathbb{R}, \mathbb{I}} \\ & \approx 7.550 \end{aligned}$$

$$\begin{aligned} 17. & 2(4c + 5d) + 6(2cd) \\ & = 8c + 10d + 12cd \\ & = 8c + 12c + 10d + 6d \\ & = \boxed{20c + 16d} \end{aligned}$$

$$\begin{aligned} 21. & -56 \div 8 \\ & = \boxed{-7 \quad \mathbb{R}, \mathbb{Q}, \mathbb{Z}} \end{aligned}$$

$$\begin{aligned} 23. & -4.2 \times 10 \\ & = \boxed{-42 \quad \mathbb{R}, \mathbb{Q}, \mathbb{Z}} \end{aligned}$$

$$\begin{aligned} 25. & \sqrt{25} - 6 \\ & = 5 - 6 \\ & = \boxed{-1 \quad \mathbb{R}, \mathbb{Q}, \mathbb{Z}} \end{aligned}$$

Assign 2
cont

29. $4 \div 2^3$

$= 4 \div 8$

$= \boxed{\frac{1}{2} \text{ R, Q}}$

31. $\sqrt{64+3}$

$= \boxed{\sqrt{67} \text{ R, I}}$

53. $4(14c-10d) - 6(d+4c)$

$= 56c - 40d - 6d - 24c$

$= 56c - 24c - 40d - 6d$

$= \boxed{32c - 46d}$

55. $\frac{3}{4}(2x-5y) + \frac{1}{2}\left(\frac{2}{3}x+4y\right)$

$= \frac{3}{2}x - \frac{15}{4}y + \frac{1}{3}x + 2y$

$= \left(\frac{3}{2}\right)\frac{2}{3}x + \left(\frac{2}{2}\right)\frac{1}{3}x - \frac{15}{4}y + \left(\frac{4}{4}\right)\frac{2}{1}y$

$= \frac{9}{6}x + \frac{2}{6}x - \frac{15}{4}y + \frac{8}{4}y$

$= \boxed{\frac{11}{6}x - \frac{7}{4}y}$

57. $7(0.2m+0.3n) + 5(0.6m-n)$

$= 1.4m + 2.1n + 3m - 5n$

$= 1.4m + 3m + 2.1n - 5n$

$= 4.4m - 2.9n$

Review

10. $36.6 + 0.57 = \boxed{37.17}$

$$\begin{array}{r} 36.60 \\ + 0.57 \\ \hline 37.17 \end{array}$$

Review cont

$$2. \quad 6.54 - 1.65 = \boxed{4.89}$$

$$\begin{array}{r} 6.54 \\ - 1.65 \\ \hline 4.89 \end{array}$$

$$3. \quad -9.16 - (-10.17) = -9.16 + 10.17$$

$$\begin{array}{r} 10.17 \\ - 9.16 \\ \hline 1.01 \end{array} = \boxed{1.01}$$

$$4. \quad -0.87 + 3.5 - 7.6 + 2.8 = 2.63 - 7.6 + 2.8$$

$$\begin{array}{r} 3.50 \\ - 0.87 \\ \hline 2.63 \end{array} \quad \begin{array}{r} 7.60 \\ - 2.63 \\ \hline 4.97 \\ - 2.8 \\ \hline 2.17 \end{array} = -4.97 + 2.8 = \boxed{-2.17}$$

$$5. \quad (-81)(-18) = \boxed{1458}$$

$$\begin{array}{r} 81 \\ \times 18 \\ \hline 648 \\ 810 \\ \hline 1458 \end{array}$$

$$6. \quad (-9.8)(4) = \boxed{-39.2}$$

$$\begin{array}{r} 9.8 \\ \times 4 \\ \hline 39.2 \end{array}$$

$$7. \quad (-0.075)(-5.5) = \boxed{0.4125}$$

$$\begin{array}{r} 0.075 \\ \times 5.5 \\ \hline 375 \\ 3750 \\ \hline 4125 \end{array}$$

Assign #2
cont

$$8. \quad 8.72 \div 0.04 = \boxed{218}$$

$$0.04 \overline{) 8.72} \rightarrow 4 \overline{) 872}$$

$$\begin{array}{r} 218 \\ 4 \overline{) 872} \\ \underline{-8} \\ 07 \\ \underline{-4} \\ 32 \\ \underline{-32} \\ 0 \end{array}$$

$$9. \quad 2.92 \div 4 = \boxed{0.73}$$

$$\begin{array}{r} .73 \\ 4 \overline{) 2.92} \\ \underline{-28} \\ 12 \\ \underline{-12} \\ 0 \end{array}$$

$$10. \quad \left(\frac{4}{18}\right) \left(\frac{1}{3}\right) = \boxed{\frac{-2}{9}}$$

$$11. \quad \left(5\frac{1}{3}\right) \left(1\frac{4}{5}\right) = \left(\frac{16}{3}\right) \left(\frac{9}{5}\right) = \boxed{\frac{48}{5}}$$

$$12. \quad \left(\frac{-24}{25}\right) \left(\frac{3}{32}\right) = \boxed{\frac{-9}{20}}$$

$$13. \quad 11 \div \frac{2}{3} = \frac{11}{1} \cdot \frac{3}{2} = \boxed{\frac{33}{2}}$$

$$14. \quad 5\frac{3}{5} \div 4\frac{1}{5} = \frac{-28}{5} \div \frac{21}{5} = \frac{-28}{5} \cdot \frac{5}{21} = \boxed{\frac{-4}{3}}$$

$$15. \quad \frac{7}{12} + \frac{2}{3} = \frac{7}{12} + \frac{8}{12} = \frac{15}{12} = \boxed{\frac{5}{4}}$$

$$16. \quad -\frac{7}{3} - \frac{5}{2} = -\frac{14}{6} - \frac{15}{6} = \boxed{-\frac{29}{6}}$$

$$17. \quad \frac{3}{4} - \frac{4}{5} + \frac{2}{5} = \frac{15}{20} - \frac{16}{20} + \frac{8}{20} = \frac{4}{20} + \frac{8}{20} \\ = \boxed{\frac{7}{20}}$$