Answers to Stations #2 9/24

① $\frac{63 \div 9}{81 \div 9} \rightarrow \boxed{\frac{7}{9}}$

② common denominator of 20

$\frac{15}{20}$ and $\frac{8}{20}$ and $\frac{6}{20}$ → in order $\frac{3}{10}, \frac{2}{5}, \frac{3}{4}$

③ $\frac{4}{6} + \frac{3}{6} = \boxed{\frac{7}{6}}$

Get a common denominator of 6.

④ $\frac{1}{3} - 2\frac{3}{7} = \frac{1}{3} - \frac{17}{7} = \frac{1\times7}{3\times7} - \frac{17\times3}{7\times3} = \frac{7}{21} - \frac{51}{21} = \boxed{\frac{-44}{21}}$

mixed # → improper fraction; common denom. is 21; subtr. numerators

⑤ $12 \times \frac{3}{4} = \frac{12}{1} \times \frac{3}{4} = \frac{36}{4} = \frac{9}{1} = \boxed{9}$

⑥ $4a - 18a - 6 + 15 = \boxed{-14a + 9}$

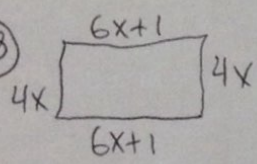
⑦ $2x + 13 = 32$

$-13 \quad -13$

$\frac{2x}{2} = \frac{19}{2}$

$x = \frac{19}{2}$ or 9.5

⑧



$P = 6x+1+4x+6x+1+4x$

$= \boxed{20x+2}$

⑨ $5(x-2)+6 = 26$

$-6 \quad -6$

$\frac{5(x-2)}{5} = \frac{20}{5}$

$x - 2 = 4$

$+2 \quad +2$

$\boxed{x = 6}$

⑩ $21 \div 1\frac{3}{4} = 21 \div \frac{7}{4} = 21 \times \frac{4}{7}$

Change $1\frac{3}{4}$ into an improper fraction

Division is multiplying by the reciprocal of the divisor.

$\frac{21}{1} \times \frac{4}{7} = \frac{84}{7} = \boxed{12}$

⑪ $\frac{x-5}{8} = 2$ multiply both sides by 8

$\frac{8}{1} \cdot \frac{x-5}{8} = 2 \cdot 8$ $\quad \frac{8}{8} = 1$ The eights reduce to 1

$x - 5 = 16$

$+5 \quad +5$ add 5 to both sides

$\boxed{x = 21}$

⑫ $5 - 2(9z - 4)$ mult -2 through the parenthesis

$5 - 18z + 8$ add the like terms 5+8

$\boxed{13 - 18z}$