Unit 1 Review

|-1 1) Evaluate $|3-10|$

$$= |-7|$$
$$= \boxed{7}$$

2) $|3-1| - |-2--1|$

$$= |2| - |-2+1|$$
$$= 2 - |-1|$$
$$= 2 - 1$$
$$= \boxed{1}$$

|-2| Evaluate

3) $3 + - + - (-5)$

$$3 - 5$$
$$= \boxed{-2}$$

4) $-1 + -2$

$$= -1 - 2$$
$$= \boxed{-3}$$

5) $(6-8) - (3-12)$

$$= -2 = -9$$
$$= -2 + 9$$
$$= \boxed{7}$$

|-3| 6) $3 - 2(4)$

$$= 3 - 8$$
$$= \boxed{-5}$$

7) $-5 + -3(2-5)$

$$= -5 - 3(-3)$$
$$= -5 - -9$$
$$= \boxed{4}$$

8) $\dfrac{-3 + -5}{4 - 3(1-5)}$

$$= \frac{-3-5}{4-3(-4)}$$
$$= \frac{-8}{4--12}$$
$$= \frac{-8}{16}$$
$$= \boxed{-\frac{1}{2}}$$

1-5) Evaluate

9) $\dfrac{15}{16} \cdot \dfrac{4}{3}$ (with cancellation: $\dfrac{\cancel{15}^{5}}{\cancel{16}_{4}} \cdot \dfrac{\cancel{4}}{\cancel{3}}$)

$= \boxed{\dfrac{5}{4}}$

10) $\dfrac{9}{25} \div 5\dfrac{2}{5}$

$= \dfrac{9}{25} \div \dfrac{27}{5}$

$= \dfrac{\cancel{9}}{\cancel{25}_{5}} \cdot \dfrac{\cancel{5}}{\cancel{27}_{3}}$

$= \boxed{\dfrac{1}{15}}$

1-4)

11) $\dfrac{1 \cdot 2}{3 \cdot 2} - \dfrac{1 \cdot 3}{2 \cdot 3}$

$= \dfrac{2}{6} - \dfrac{3}{6}$

$= \boxed{-\dfrac{1}{6}}$

12) $3\dfrac{2}{3} - 2\dfrac{3}{4}$

$= \dfrac{11 \cdot 4}{3 \cdot 4} - \dfrac{11 \cdot 3}{4 \cdot 3}$

$= \dfrac{44}{12} - \dfrac{33}{12}$

$= \boxed{\dfrac{11}{12}}$

Practice Unit 1 Practice 2