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## 2.2 \& 2.3 Practice A

Simplify. Write fractions in simplest form.

1. $\frac{5}{16}+\left(-\frac{7}{16}\right)$
2. $\frac{7}{12}-\left(-\frac{13}{12}\right)$
3. $-\frac{7}{2}+3 \frac{2}{3}$
4. $-3 \frac{1}{2}-1 \frac{5}{6}$
5. $-12.41-(-9.95)$
6. $-8.2+5.4$
$7.5 .6+(-1.3)$
7. $2-8.25$
8. $7.15+(-12.76)$
10.Describe and correct the error in finding the sum.

$$
X \quad \frac{3}{10}+\left(-\frac{1}{10}\right)=\frac{3+1}{10}=\frac{4}{10}=\frac{2}{5}
$$

Evaluate the expression when $x=\frac{1}{2}$ and $y=-\frac{2}{5}$.
11. $-x+y$
12. $x+2 y$
13. $|x+y|$
14. Your dog's water bowl is $\frac{3}{4}$ full. After taking a drink, the water bowl is $\frac{1}{3}$ full. What fraction of the bowl did your dog drink?
15. The temperature is -12.6 degrees Celsius. The temperature goes up 7.9 degrees. What is the new temperature?
16. You finish $\frac{3}{8}$ of the project. Your friend finishes $\frac{1}{4}$ of the project. What fraction of the project is finished?
17. Mary filled a water cooler with $6 \frac{1}{2}$ gallons of water. She forgot to close the plug and $2 \frac{5}{6}$ gallons leaked out.
a. How many gallons of water remain in the cooler?
b. She adds $1 \frac{1}{4}$ gallons. How many gallons of water are now in the cooler?
c. How many gallons of water must she add to the cooler to get the required $6 \frac{1}{2}$ gallons?

