



ALL PROBLEMS CAN BE COMPLETED ON THIS WORKSHEET

**WS 1D.2 - More Order of Operations**

#1-7, Simplify.

$$1. \quad \underline{10 - 9} + 4$$

Add/subtract from left to right!

$$= 1 + 4$$

$$= \boxed{5}$$

$$2. \quad \underline{20 \div 2} \cdot 5$$

Multiply/Divide from left to right!

$$= 10 \cdot 5$$

$$= \boxed{50}$$

$$3. \quad \frac{\underline{2-8}}{3} - 5(\underline{8-9})$$

$$= \frac{-6}{3} - 5(-1)$$

$$= -2 + 5$$

$$= \boxed{3}$$

$$4. \quad 8^{(\underline{5-3})} - 6 \cdot 7$$

$$= 8^2 - 6 \cdot 7$$

$$= 64 - \underline{6 \cdot 7}$$

$$= 64 - 42$$

$$= \boxed{22}$$

$$5. \quad 6|4(\underline{-1}) - 1| + 2|6 - 2(\underline{-1})|$$

$$= 6| \underline{-4} - 1 | + 2| \underline{6} + 2 |$$

$$= 6| \underline{-5} | + 2| \underline{8} |$$

$$= \underline{6(5)} + \underline{2(8)}$$

$$= 30 + 16 = \boxed{46}$$

$$6. \quad 5^3 - 2[4 - 5(\underline{6^2 + 4})] - 17$$

$$= 5^3 - 2[4 - 5(\underline{36 + 4})] - 17$$

$$= 125 - 2[4 - 5(\underline{40})] - 17$$

$$= 125 - 2[4 - \underline{200}] - 17$$

$$= 125 - 2(\underline{-196}) - 17$$

$$= 125 + 392 - 17$$

$$= \boxed{500}$$

$$7. \quad \frac{2^3 - (2 - 3)}{10 - 6} + \frac{6 - 3 \cdot 3}{1 + 2^2}$$

$$= \frac{8 - (-1)}{4} + \frac{6 - 9}{1 + 4}$$

$$= \frac{9}{4} + \frac{-3}{5}$$

need common denominator

$$= \frac{45}{20} + \frac{-12}{20} = \boxed{\frac{33}{20}}$$