

HW Set 3

2. (a) Compensation: $86 \overset{14}{\curvearrowright} + 34 = 100 + 20$.
 (b) Any-order *or* commutative
 (c) Additive Identity
 (d) Any-order *or* associative and commutative
 (e) Any-order *or* commutative.
3. (a) $91 + 15 + 9 = (91 + 9) + 15 = 100 + 15 = 115$
 (b) $4 + 17 + 32 + 23 + 36 + 20 = (36 + 4) + (17 + 23) + 20 + 32 = 40 + 40 + 20 + 32 = 132$
 (c) $75 + 13 + 4 + 25 = (75 + 25) + (13 + 4) = 100 + 17 = 117$
 (d) $28 + 32 + 35 + 7 = (28 + 32) + (35 + 7) = 60 + 42 = 102$.
 (e) $34 + 17 + 6 + 23 = (34 + 6) + (23 + 17) = 40 + 40 = 80$.
4. (a) twice 8 = 16, (b) twice 20 = 40, (c) twice 25 = 50, (d) twice 5 = 10
5. (1a) $509 \overset{9}{\curvearrowright} + 365 = 500 + 374 = 874$
 (1b) $128 \overset{20}{\curvearrowright} + 280 = 108 + 300 = 408$
 (1c) $384 \overset{16}{\curvearrowright} + 418 = 400 + 402 = 802$
 (2a) $746 \overset{46}{\curvearrowright} + 254 = 700 + 300 = 1000$
 (2b) $262 \overset{38}{\curvearrowright} + 138 = 300 + 100 = 400$
 (2c) $432 \overset{32}{\curvearrowright} + 368 = 400 + 400 = 800$.
7. (a) \leq
 (b) $=$
 (c) \geq
 (d) \approx
 (e) \neq
8. (a) “Ryan = \$2” means that Ryan and \$2 are the same. Unless Ryan is a \$2 bill, this is not true. The student perhaps meant “Ryan has \$2” or “Ryan’s money: \$2”
 (b) $4.8203 \approx 4.8$
 (c) $(3 + 15) \div 2 + 6 = 18 \div 2 + 6 = 9 + 6 = 15$.