

NAME _____

Module 1 Number Sense
Lesson 3 Properties of Addition and Multiplication and
Inverse Operations

Challenge Problems

1.3

Set 1

Name the property shown by each equation.

1 $21 + 37 + 0 = 37 + 21$

2 $(4 + 5) + 0 = 4 + (0 + 5)$

Set 2

Solve and give a reason for each step.

1 $32 + (29 + 68)$

2 $64 + 8 + 6 + 22$

Set 3

Name the properties shown by each equation.

1 $(3 + 4) + 7(4 \times 5) = 7(5 \times 4) + (4 + 3)$

2 $(2 + 6) + 7(8 \times 3) = 2 + [6 + (7 \times 8)3]$

Set 4

Simplify using mental math.

1 $520 \times 25 + 240 \times 50$

2 $(24)(5)(5) + (172)(25)$

Additional Work Area