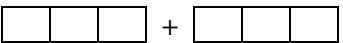

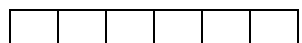
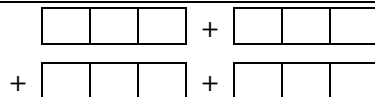



## INTEGER PRACTICE QUIZ (SOLUTIONS)

1. Interpret each expression in terms of *gains* and *losses*. Then write in simplest form and evaluate. 25/25

<i>Expression</i>	<i>Interpretation in Terms of Gains and Losses</i>	<i>Simplified Form of Expression</i>	<i>Answer</i>
(a) $-1 - (-3)$	A <i>loss of 1</i> followed by a <i>gain of 3</i>	$-1 + 3$	2
(b) $(-6) + (+12)$	A <i>loss of 6</i> followed by a <i>gain of 12</i>	$-6 + 12$	6
(c) $(-1) + (-46)$	A <i>loss of 1</i> followed by a <i>loss of 46</i>	$-1 - 46$	-47
(d) $(+18) - (+41)$	A <i>gain of 18</i> followed by a <i>loss of 41</i>	$18 - 41$	-23
(e) $48 - (-31)$	A <i>gain of 48</i> followed by a <i>gain of 31</i>	$48 + 31$	79
(f) $-38 - 30$	A <i>loss of 38</i> followed by a <i>loss of 30</i>	$-38 - 30$	-68
(g) $16 + (-19) - (-1)$	A <i>gain of 16</i> followed by a <i>loss of 19</i> followed by a <i>gain of 1</i>	$16 - 19 + 1$	-2

2. Interpret each expression in terms of groups. Then represent the expression with a diagram and evaluate. 12/12

<i>Expression</i>	<i>Interpretation in Terms of Groups</i>	<i>Diagram</i>	<i>Answer</i>
(a) $2(-3)$	<i>2 groups</i> of -3		-6
(b) $3(2)$	<i>3 groups</i> of 2		6
(c) $(-1)(6)$	<i>6 groups</i> of -1 OR <i>1 group</i> of -6 OR <i>-1 groups</i> of 6		-6
(d) $(4)(-3)$	<i>4 groups</i> of -3		-12
(e) $-3(4)$	<i>4 groups</i> of -3 OR <i>3 groups</i> of -4 OR <i>-3 groups</i> of 4	Same as previous one.	-12
(f) $-3(-2)$	<i>-3 groups</i> of -2 OR <i>3 groups</i> of 2		6

3. Interpret each expression in terms of groups. Then evaluate. 6/6

<i>Expression</i>	<i>Interpretation in Terms of Groups</i>	<i>Answer</i>
(a) $12 \div (-3)$	<i>How many groups</i> of -3 are there in 12?	-4
(b) $-6 \div 2$	<i>How many groups</i> of 2 are there in -6?	-3
(c) $14 \div 7$	<i>How many groups</i> of 7 are there in 14?	2
(d) $-81 \div (-9)$	<i>How many groups</i> of -9 are there in -81?	9