

Chapter 9 BLM Answers

BLM 9-2 Adding and Subtracting Integers

- $+9, +10, +11$
 - $-656, -655, -654$
 - $-39.3, -39.4, -39.5, -39.6, -39.7, -39.8, -39.9, -40.0, -40.1, -40.2, -40.3, -40.4, -40.5, -40.6, -40.7, -40.8$
- a)–c) Integers and representations will vary. Look for six representations of one of integers $-5, -4, -3, \text{ or } -2$ using words, symbols, operations, and diagrams.
- $+854 > -855$
 - $-855 < -854$
- $-1, -2, -6$
 - $+356, -365, -369$
- -17
- $-129, -109, +99.4, +99.41$
 - $-8.1, -6.2, 0, +2.5$

BLM 9-3 Section 9.1 Extra Practice

- $(-6) + (+5) = +1$
- $(+17) + (-11) = +6$
Marianne has \$6 left.
 - $(-5) + (+7) = +2$
The temperature was 2°C in the afternoon.
 - $(+7) + (-8) = -1$
Jeremy's team lost by one goal.
 - $(+10) + (-14) = -4$
Amy was 4 m below the surface.
- $(+3) + (-3) = 0$
 - $(+7) + (-7) = 0$
 - $(+8) + (-8) = 0$
 - $(+10) + (-10) = 0$
- P b) N c) N d) P
 - $(-7) + (+1) + (+2) = -4$
 - $(-2) + (-4) + (+3) = -3$
 - $(+5) + (+3) + (-1) + (-4) = +3$
 - $(-4) + (+3) + (-2) + (-6) = -9$

BLM 9-4 Section 9.2 Extra Practice

- $(-2) + (+4) = +2$
 - $(+7) + (-8) = -1$
 - $(-5) + (+2) = -3$
- Look for a number line that shows $(-5) + (+6) = +1$
 - Look for a number line that shows $(-3) + (-2) = -5$
 - Look for a number line that shows $(+8) + (-10) = -2$

- Look for a number line that shows $(+15) + (-9) = +6$

BLM 9-7 Section 9.3 Extra Practice

- Look for 7 blue chips, 4 zero pairs with 4 red chips circled, and a difference of 11 blue chips. $(-7) - (+4) = -11$
 - Look for 8 red chips, 3 zero pairs with 3 blue chips circled, and a difference of 11 red chips. $(+8) - (-3) = +11$
 - Look for 13 red chips, 7 zero pairs with 7 blue chips circled, and a difference of 20 red chips. $(+13) - (-7) = +20$
- 2 zero pairs; $(+7) - (-2) = (+9)$
 - 2 zero pairs; $(-7) - (+2) = (-9)$
 - 5 zero pairs; $(-9) - (+5) = (-14)$
 - 9 zero pairs; $(+8) - (-9) = (+17)$
 - 7 zero pairs; $(+5) - (+7) = (-2)$

BLM 9-8 Section 9.4 Explore the Math

$(+4) - (+3) = +1$	$(+4) + (-3) = +1$
$(-5) - (-3) = -2$	$(-5) + (+3) = -2$
$(-3) - (+1) = -4$	$(-3) + (-1) = -4$
$0 - (+2) = -2$	$0 + (-2) = -2$
$(+2) - (-4) = +6$	$(+2) + (+4) = +6$
$(-4) - (-5) = +1$	$(-4) + (+5) = +1$

BLM 9-9 Section 9.4 Extra Practice

- $(+3) - (+2) = +1$; $(+3) + (-2) = +1$
 $(+9) - (+7) = +2$; $(+9) + (-7) = +2$
 $(+10) - (+5) = +5$; $(+10) + (-5) = +5$
 $(+7) - (+1) = +6$; $(+7) + (-1) = +6$
 $(+8) - (+4) = +4$; $(+8) + (-4) = +4$
 - Subtracting an integer is the same as *adding* its opposite integer.
- $(+6) + (-4)$
 - $(+10) + (-6)$
 - $(+12) + (-7)$
 - $(+8) + (+5)$
 - $(+9) + (+2)$
 - $(+10) + (+6)$
- $+13$
 - $(+12) - (-2) = (+12) + (+2) = +14$
 - $(-8) - (-6) = (-8) + (+6) = -2$
- $+10$
 - $+16$
 - $+19$
 - $+3$
 - $+7$
 - $+4$

BLM 9–12 Section 9.5 Extra Practice

1. **a)** $(-5) - (-10) = (-5) + (+10) = +5$
b) $(+3) - (-3) = (+3) + (+3) = +6$
c) $(+7) - (+16) = (+7) + (-16) = -9$
d) $(-8) - (+4) = (-8) + (-4) = -12$
2. **a)** $(-9) + (+2) = -7$
b) $(+11) + (+3) = +14$
c) $(-12) + (-7) = -19$
d) $(+23) + (-16) = +7$
3. **b)** $(+12) - (-2) = (+12) + (+2) = +14$
4. $(+7000) - (-2000) = (+7000) + (+2000)$
 $= +9000$
5. $(-3000) + (+5000) = +2000$

BLM 9–14 Chapter 9 Test

1. B 2. A 3. B 4. C 5. B
6. $(+35) - (-9) = +44$ m. The distance between the bird and the fish is 44 m.
7. $(-7) - (+8) = -15^{\circ}\text{C}$. It is -15°C in the late afternoon.
8. **a)** -5 **b)** +13 **c)** -13
d) -15 **e)** -7 **f)** +2
9. $P = 2 \times (l + w) = 2 \times (17 + 11) = 2 \times 28$
 $= 56$ squares
 $A = l \times w = 17 \times 11 = 187$ square units
10. Answers will vary. Look for two addition and two subtraction statements that have a value of -3.