Name _____ Date _____

Extra Practice 1A

Lesson 2.1: Representing Integers

1. Write the integer represented by each set of tiles.

a) R R R R R

b) Y Y Y

c) Y Y
R R R

d) Y Y Y Y
R R R R R R R

e) Y Y Y Y Y
R

f) Y Y
R R

2. Use coloured tiles. Draw two different models for each integer.

a) –3

b) +5

c) –6

d) 0

3. Which integer is modelled by each set of tiles?

a) 3 yellow tiles and 4 red tiles

b) 16 red tiles and 20 yellow tiles

c) 9 yellow tiles and 9 red tiles

d) 85 red tiles and 47 yellow tiles

4. **a)** You have 4 red tiles and want to model –2.
How many yellow tiles do you need?

b) You have 5 yellow tiles and you want to model –3.
How many red tiles do you need?

c) You have 5 red tiles and 2 yellow tiles.
What tiles do you need to model +3?

d) You have 4 red tiles and 6 yellow tiles.
What tiles do you need to model –3?

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Extra Practice 2A

Lesson 2.2: Adding Integers with Tiles

1. What sum does each set of tiles model?
Write the addition equation.

a) Y Y Y
R R R R R R

b) Y Y Y Y Y
R R

c) Y
R R R R

d) Y Y Y Y
R R R R

2. What sum does each set of tiles represent?
a) 4 yellow tiles and 2 red tiles
b) 8 red tiles and 1 yellow tile
c) 6 yellow tiles and 16 red tiles
d) 24 yellow tiles and 37 red tiles

3. Sketch the tiles to represent each sum.
Write the addition equation.

a) (+3) + (–1)

b) (+3) + (–4)

c) (–7) + (–2)

d) (+2) + (+4)

e) (–2) + (+5)

f) (–7) + (–7)

4. Represent each sentence with integers, and then find each sum.
What does each sum represent?

a) Jose deposits $100, and then withdraws $27.

b) The elevator descended 4 levels, and then rose 19 levels.

c) The temperature raised 4ºC, then dropped 10ºC.

d) The value of the dollar rose 4¢, and then fell 2¢.

5. These are the scores on each hole of mini-golf.
What is the cumulative score after each hole?
Which hole did the golfer find easiest? Hardest?

Hole Number	1	2	3	4	5	6	7	8	9
Score	–3	+1	0	–1	+3	–2	–1	0	+4

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Extra Practice 3A

Lesson 2.3: Adding Integers on a Number Line

1. Use a number line to add. Use coloured tiles to check.

a) (+3) + (–1)

b) (–4) + (–3)

c) (+5) + (–7)

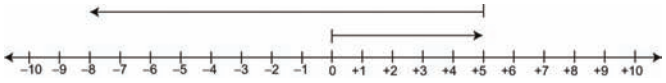
d) (–8) + (+5)

e) (–4) + (+7)

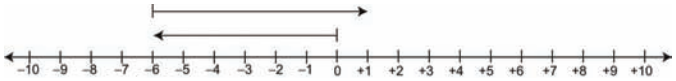
f) (+5) + (–10)

2. Write the addition equation modelled by each number line.

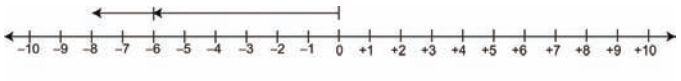
a)



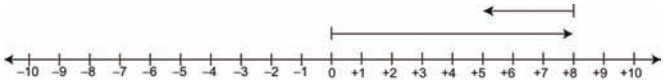
b)



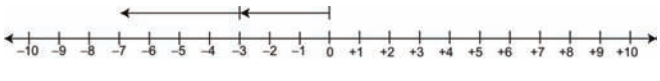
c)



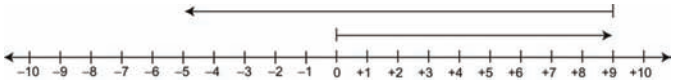
d)



e)



f)



3. Use a number line. Write an addition equation for each situation. What does each sum represent?

a) Joanne withdrew $10, and then deposited $30 in her bank account.

b) Tom deposited $10, and then withdrew $30 from his bank account.

c) Mary deposited $15, and then withdrew $15 from her bank account.

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Extra Practice 4A

Lesson 2.4: Subtracting Integers with Tiles

1. Use tiles to subtract.

a) (+9) – (+2) **b)** (–9) – (+2) **c)** (+4) – (+7)

d) (–5) – (–3) **e)** (+5) – (–2) **f)** (–6) – (–4)

2. Subtract.

a) (+6) – (+2) **b)** (+5) – (–3) **c)** (–9) – (+3)

d) (–8) – (–4) **e)** (–6) – (–5) **f)** (–6) – (–6)

3. What should you subtract from each integer to get the answer +2?

a) +9 **b)** +1 **c)** –4 **d)** 0

4. What should you subtract from each integer to get the answer –3?

a) +4 **b)** –2 **c)** –7 **d)** –10

5. Use integers.

Write a subtraction equation that would give each answer.

a) +1 **b)** –2 **c)** +3 **d)** –4

6. Which expression in each pair has the lesser value?

a) **i)** (–4) – (+1) **ii)** (+4) – (–1)

b) **i)** (+2) – (+3) **ii)** (–2) – (–3)

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Extra Practice 5A

Lesson 2.5: Subtracting Integers on a Number Line

1. Use a number line to subtract.

a) (+7) – (+3) **b)** (–7) – (+3) **c)** (+5) – (+14)

d) (–6) – (–4) **e)** (–5) – (+8) **f)** (–4) – (–11)

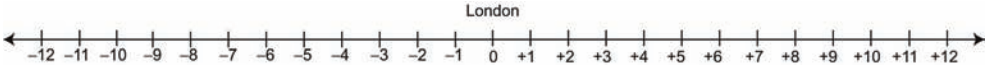
2. Use patterns to subtract.

a) (+6) – (–2)
Start with (+6) – (+2).

b) (–4) – (+6)
Start with (+7) – (+6).

c) (+3) – (+7)
Start with (+8) – (+7).

3. The World Standard Time Zones are like a number line from –12 to +12.



What is the time difference between:

a) Amsterdam (zone +1) and Calgary (zone –7)?

b) Winnipeg (zone –6) and Whitehorse (zone –8)?

c) Beijing (zone +8) and Rio de Janeiro (zone –3)?

4. The difference between (+37) and (+43) is –6.

a) Write the subtraction statement.

b) Write another subtraction statement using two negative integers with this difference.

c) Write another subtraction statement using a positive integer and a negative integer with this difference.

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Extra Practice Sample Answers

Extra Practice 1A

Lesson 2.1

1. **a)** –5 **b)** +3 **c)** –1
d) –3 **e)** +4 **f)** 0

2. Answers will vary. For example:

a) Y / R R R R or Y Y Y / R R R R R R

b) Y Y Y Y Y Y Y / R R or Y Y Y Y Y

c) R R R R R R or Y / R R R R R R R

d) Y Y / R R or Y / R

3. **a)** –1 **b)** +4 **c)** 0 **d)** –38

4. **a)** 2 **b)** 8 **c)** 6 yellow tiles **d)** 5 red tiles

Extra Practice 2A

Lesson 2.2

1. **a)** (+3) + (–6) = –3 **b)** (+5) + (–2) = +3
c) (+1) + (–4) = –3 **d)** (+4) + (–4) = 0

2. **a)** (+4) + (–2) = +2 **b)** (–8) + (+1) = –7
c) (+6) + (–16) = –10 **d)** (+24) + (–37) = –13

3. **a)** (+3) + (–1) = +2
Y Y Y / R

b) (+3) + (–4) = –1
Y Y Y / R R R R

c) (–7) + (–2) = –9
R R R R R R R / R R

d) (+2) + (+4) = +6
Y Y / Y Y Y Y

e) (–2) + (+5) = +3
Y Y Y Y Y / R R

f) (–7) + (–7) = –14
R R R R R R R / R R R R R R R

4. **a)** (+100) + (–27) = +73
Jose has $73 left in his bank account.

b) (–4) + (+19) = +15
The elevator rose 15 levels from where it was originally.

c) (+4) + (–10) = –6
The temperature has dropped 6ºC from what it was originally.

d) (+4) + (–2) = +2
The value of the dollar rose a total of 2¢ from what it was originally.

5.

Hole Number	1	2	3	4	5	6	7	8	9
Score	–3	+1	0	–1	+3	–2	–1	0	+4
Cumulative Score	–3	–2	–2	–3	0	–2	–3	–3	+1

The golfer found the first hole the easiest and the last hole hardest.

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Name _____ Date _____

Extra Practice 3A

Lesson 2.3

1. **a)** +2 **b)** –7 **c)** –2
d) –3 **e)** +3 **f)** –5

2. **a)** (+5) + (–13) = –8 **b)** (–6) + (+7) = +1
c) (–6) + (–2) = –8 **d)** (+8) + (–3) = +5
e) (–3) + (–4) = –7 **f)** (+9) + (–14) = –5

3. **a)** (–10) + (+30) = +20
Joanne has had a $20 increase in her bank account.
b) (+10) + (–30) = –20
Tom has had a $20 reduction in his bank account.
c) (+15) + (–15) = 0
Mary has had no change in the amount of money in her bank account.

Extra Practice 4A

Lesson 2.4

1. **a)** +7 **b)** –11 **c)** –3
d) –2 **e)** +7 **f)** –2

2. **a)** (+6) – (+2) = +4 **b)** (+5) – (–3) = +8
c) (–9) – (+3) = –12 **d)** (–8) – (–4) = –4
e) (–6) – (–5) = –1 **f)** (–6) – (–6) = 0

3. **a)** +7 **b)** –1 **c)** –6 **d)** –2

4. **a)** +7 **b)** +1 **c)** –4 **d)** –7

5. Answers will vary. For example:
a) (+5) – (+4) = +1 **b)** (–6) – (–4) = –2
c) (–1) – (–4) = +3 **d)** (–1) – (+3) = –4

6. **a)** **i)** (–4) – (+1) = –5 **ii)** (–4) – (–1) = –3
The first expression has the lesser value.
b) **i)** (+2) – (+3) = –1 **ii)** (–2) – (–3) = +1
The first expression has the lesser value.

Extra Practice 5A

Lesson 2.5

1. **a)** +4 **b)** –10 **c)** –9
d) –2 **e)** –13 **f)** +7

2. **a)**
(+6) – (+2) = +4
(+6) – (+1) = +5
(+6) – (0) = +6
(+6) – (–1) = +7
(+6) – (–2) = +8

b)
(+7) – (+6) = +1
(+6) – (+6) = 0
(+5) – (+6) = –1
(+4) – (+6) = –2
(+3) – (+6) = –3
(+2) – (+6) = –4
(+1) – (+6) = –5
(+0) – (+6) = –6
(–1) – (+6) = –7
(–2) – (+6) = –8
(–3) – (+6) = –9
(–4) – (+6) = –10

c)
(+8) – (+7) = +1
(+7) – (+7) = 0
(+6) – (+7) = –1
(+5) – (+7) = –2
(+4) – (+7) = –3
(+3) – (+7) = –4

3. **a)** (+1) – (–7) = +8 **b)** (–6) – (–8) = +2
c) (+8) – (–3) = +11

4. **a)** (+37) – (+43) = –6 **b)** (–40) – (–34) = –6
c) (–3) – (+3) = –6

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