Name _____ Date _____

INTEGERS WITH COUNTERS · LESSON 8

The Rule for Subtracting Integers

1 All the sign cases. Fill in the Difference column and write your own example with its result for each row.

STEP	DESCRIPTION	MINUEND	SUBTRAHEND	DIFFERENCE	MY EXAMPLE
1.	Subtracting positive integers	+	+		
		+	+		
		+	+		
2.	Subtracting zero from an integer	+	0		
		0	0		
		−	0		
3.	Subtracting an integer from zero	0	+		
		0	−		
4.	Subtracting negative integers	−	−		
		−	−		
		−	−		
5.	Subtracting integers with different signs	−	+		
		+	−		

2 Which rows of the table could we not do when we could only subtract whole numbers? Why did we need zero pairs for them?

3 Write as an addition and work it out.

a) 9 − (−4) = _____ = _____ **b)** −11 − 6 = _____ = _____

c) −20 − (−35) = _____ = _____ **d)** 14 − 30 = _____ = _____

4 Work these out.

a) −4 + 7 − (−2) = _____ **b)** 12 − 15 + (−6) = _____

c) −9 − (−9) + 4 = _____ **d)** 0 − 8 − (−8) = _____

e) −25 + 40 − 30 = _____ **f)** −6 − (−6) − 6 = _____

5 Ivan worked out −3 − (−5) = −8. Where did he go wrong? Draw counters and find the correct answer.

6 Solve the problems. Write the calculation and the answer.

a) There is €20 in a bank account. Ana pays €35 by card. How much is in the account now?

b) The temperature fell from 2 °C to −7 °C. By how many degrees did it fall?

Remember

To subtract integers, we _____ the opposite of the subtrahend to the minuend.