

8.5

Applying Integer Operations*MathLinks 8, pages 312–317***Key Ideas Review**

For #1 and #2, unscramble the letters to form a word that correctly completes the statement.

1. If you are solving a problem with integers, you need to decide which

_____ to perform.
NETIPRAOO

2. Some integer problems involve the _____ of
REDOR

_____.

SAPTOOREIN

3. Put the statements in order according to the order of operations.

_____ Multiply and divide, from left to right.

_____ Add and subtract, from left to right.

_____ Brackets.

Practise and Apply

4. Calculate using the order of operations. Show your thinking.

a) $(+21) \div (-3) + (-2) \div (+1)$

b) $(-15) \div [(-3) \times (-1)] + (+2)$

c) $(-2) \times (-5) \div (-2) + (-7)$

d) $[(-3) + (-8)] + (-1) \times (-4)$

5. Calculate.

a) $(-7) + (-5) \times (+6) \div (-10)$

b) $(-3) - (-4) \times (-10) - (-12)$

6. The chart shows the change in the attendance at games night.

Week	1	2	3	4	5	6
Attendance	+12	-4	+6	-10	+15	+1

- a) How many people were there the last week?

- b) Create an integer statement to show the change in attendance from week 1 to week 6.

Name: _____

Date: _____

7. Zelia loses seven points every three minutes that she doesn't make it to the next level on the video game.

- a) If she plays for 24 minutes without reaching the next level, how many points has she lost?



- b) If she played for three hours this month and never made it to the next level, how many points did she lose?
- c) If she lost 567 points, for how long did she play without reaching the next level?

8. The temperature change in the chicken egg incubator is recorded every hour (on a 24-h clock). The temperature at 8 a.m. was 35 °C.

Time	9	10	11	12	13	14	15	16
Temp(°C)	+2	+1	+1	-3	-1	+4	-1	-2

- a) When was the temperature highest? _____
When was it lowest? _____
- b) Write an integer statement to represent the mean temperature change over the period shown.

9. Par 3 means that an expert golfer would take three strokes to complete the hole. The score indicates how many more (+) or fewer (-) strokes the player took to complete the hole. This is Paco's scorecard.

Hole	1	2	3	4	5	6	7	8	9
Par	3	3	3	3	3	3	3	3	3
Score	-1	+1	-2	Par	-2	+3	-1	+1	Par

- a) How many strokes did Paco take to complete the nine holes? Write an integer statement to represent the score, then solve.
- b) If his friend scored +1 on each hole, how many strokes did he take in total?

