

Multiplication and Division of Integers – Stations Activities

Station A

The mean temperature in Arviat, Nunavut was -21°C over the past seven days. Identify three different sets of temperatures that would satisfy this statement.

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
1							
2							
3							

Show your work below:

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Station B

A bathtub drains at a rate of 125 mL per second. The tub originally contained 537.5 L of water. Remember 1 L = 1000 mL.

Rick falls out of an airplane and drops at a rate of 9m/s. The plane is 459 m above ground. If Rick falls and the drain is pulled at the exact same moment in, what would happen first: Rick hitting the ground, or, the tub draining dry?

Show your work below:

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Station C

Mr. Davies' goes for a long run. LOL! After his run his heart is beating at 136 beats per minute. He sits down and 20 minutes later his resting heart rate is 96 beats per minute.

- a. Calculate the average change by minute of Mr. Davies' heart rate during this time.
- b. If an ideal resting heart rate is 76 beats per minute, how much longer will it take for Mr. Davies' heart rate to reach this level (assuming the rate of change stays the same)?

Show your work:

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Station D

Steve used the internet to find the low temperature in six Canadian cities on a particular day in December. He recorded them in the table below.

City	Temperature in degrees Celcius
Whitehorse	-10
Iqaluit	-7
Vancouver	+9
Edmonton	-1
Winnipeg	-9
Saskatoon	-6

- a. Find the mean temperature for the above cities on that day.

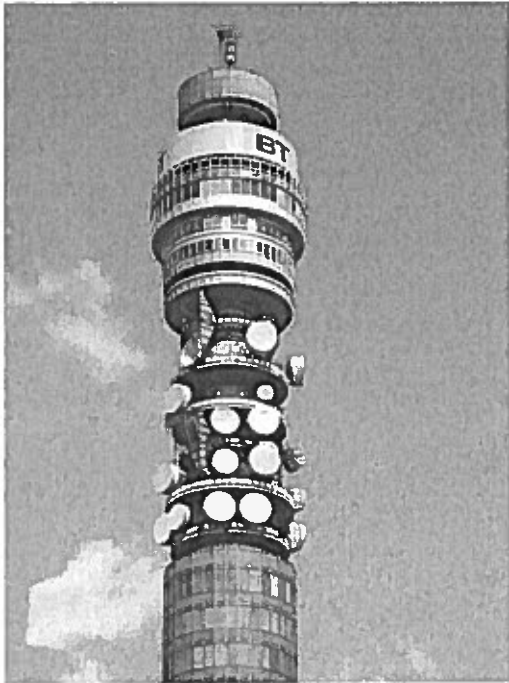
BONUS

- b. The low temperature for the same day was added to the table. The mean temperature for the seven cities was -3°C . What was the temperature in Regina?

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Station E

The observation deck of the world famous BT Tower is situated at 640 m above sea level. The base of the tower is situated at 220 m below sea level.



Bobby drops a penny from the observation deck that falls at a rate of 4 m per second. How long will it take for the penny to hit the ground?

- Create an integer expression that models this situation.
- Solve the expression.

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Station F

Using the following integers, answer the questions that follow.

-10, -8, -6, 5, 7, 9

- a. Identify the two integers that will have the **LARGEST PRODUCT**.
- b. Identify the two integers that will have the **SMALLEST PRODUCT**.
- c. Identify the three integers that will have the **LARGEST PRODUCT**.
- d. Identify the three integers that will have the **SMALLEST PRODUCT**.
- e. Identify three combinations of factors that will result in a positive product.

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Station G

Find the missing integers.

a. $\underline{\hspace{1cm}} \times (-4) = 64$

b. $(-12) \times \underline{\hspace{1cm}} = 156$

c. $(-15) \times (-11) = \underline{\hspace{1cm}}$

d. $(-22) \times \underline{\hspace{1cm}} = 132$

e. $\underline{\hspace{1cm}} \times \underline{\hspace{1cm}} = (-66)$

f. $(-55) \div (-11) = \underline{\hspace{1cm}}$

g. $(-78) \div \underline{\hspace{1cm}} = (-2)$

h. $693 \div (-3) = \underline{\hspace{1cm}}$

i. $(-44) \div \underline{\hspace{1cm}} = 4$

j. $\underline{\hspace{1cm}} \div \underline{\hspace{1cm}} = 13$

Student Answer Sheet - Multiplication and Division of Integers

Names: _____

Answer all questions in the spaces below. Be sure to show and explain all work. You will have 6 minutes to complete each station.

Station A
Station B
Station C

Station D

Station E

Station F

Station G

