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Simple Equations

- Identify variables and constants in equations.
- Solve problems that use two or three symbols or letters as variables to represent different unknown quantities.
- Solve simple equations with one variable.



Look at the formula. Circle the variables and underline the constants. Then find the values of the unknowns.

① $A = (b \times h) \div 2$

A: Area of a triangle

b: base, **h:** height

a. When $b = 10$, $h = 8$

$A = (\quad \times \quad) \div 2$

$= \underline{\quad}$

b. When $b = 12$, $h = 20$

$A = (\quad \times \quad) \div 2$

$= \underline{\quad}$

② $C = \$100 - \$9 \times y$

C: Change

y: no. of boxes of cookies

a. When $y = 8$

$C = \$100 - \$9 \times \underline{\quad}$

b. When $y = 11$

$C = \underline{\quad}$

③ $N = 20 \times m + 8 \times n$

N: Total no. of bones

m: no. of big bags, **n:** no. of small bags

a. When $m = 3$, $n = 1$

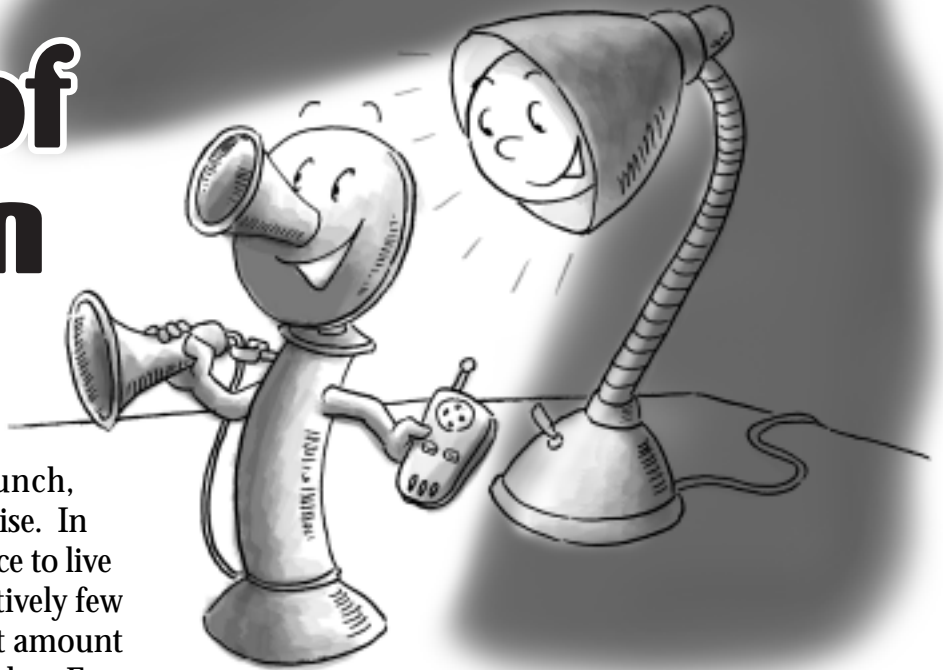
$N = \underline{\quad}$

b. When $m = 2$, $n = 6$

$N = \underline{\quad}$



Necessity is the Mother of Invention



Canadians are an inventive bunch, and it should come as no surprise. In the past, Canada was not an easy place to live at all, being a vast country with relatively few people, so Canadians needed a great amount of ingenuity simply to survive each day. From early on, it was necessary to think of ways to communicate and travel quickly, and over distances.

It is not surprising then, that one of Canada's most famous inventors is Alexander Graham Bell, who invented the telephone in 1876. He was born in Scotland, but spent much of his life in Canada. The world's first "long distance" phone call was made on August 4, 1876 from Bell's home in Brantford to Paris, Ontario, a couple of miles away. About half a century later in 1942, another Canadian named Donald Hings invented the "walkie-talkie", a form of wireless communication. In 1994, James Gosling invented Java script, the language of computer programming, which helped to make communication possible in yet another form.

Alexander Graham Bell also co-invented the hydrofoil boat with Casey Baldwin in 1908, and was a pioneer in early aviation design. And it is not surprising to learn that the snowmobile was invented in 1922 by Joseph-Armand Bombardier from Quebec. The snow blower was invented five years later by another Quebecer named Arthur Sicard.

Canada is also a world leader in electricity generation, and in the manufacturing of electric goods. Canadians James Woodward and Matthew Evans invented the electric light bulb in 1874, later selling the patent to Thomas Edison. Soon, other Canadians began inventing things that ran on electricity, examples of which are the electric streetcar, invented by John Joseph Wright in 1883; the electric organ, patented by Morse Robb of Belleville, Ontario, in 1928; the electric wheelchair, created in 1954 by George Klein as a way to help disabled WWII veterans; and the electronic automated postal sorter, invented by Maurice Levy in 1957.

From the jetliner designed in 1949 by James Floyd to the Jolly Jumper invented in 1959 by Olivia Poole, as well as the paint roller, the lawn sprinkler, and many more, Canadians have ingeniously found ways to make life a little less difficult, and a little more fun, for everyone.



Tourism in Canada

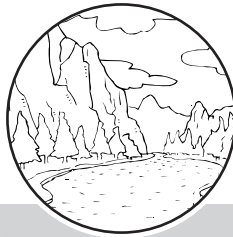
Tourism is important to many communities in Canada. Visitors needing accommodation and meals support local businesses. Tourism is also a way to share our **culture** with people from other countries.

A. Look at the tourist attractions. Direct the tourists to their Canadian destinations. Write the answers on the lines.

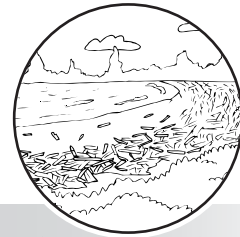
Churchill, Manitoba



Banff National Park



Pacific Rim National Park



Attractions in Canada



Québec City, Quebec



Prince Edward Island

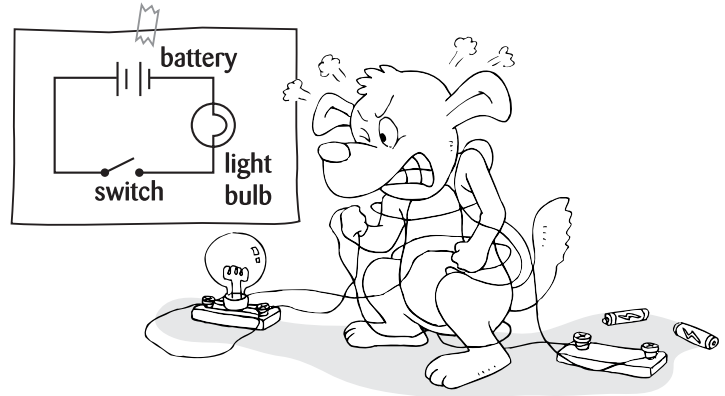


Drumheller, Alberta

1. "I hear we may be able to see polar bears and they're not at the zoo."
2. "The best time of the year to visit this city is during Carnaval, the winter festival!"
3. "We should be able to hike some mountain trails while we're camping."
4. "We'll lie on the beach and watch the ocean surf. We might even see some whales."
5. "This will be a fun vacation! I love *Anne of Green Gables*."
6. "We'll visit the Royal Tyrrell Museum, and maybe even find some dinosaur bones."

Circuits

- We use symbols to draw an electrical circuit. The drawing is called a schematic.
- An electrical circuit is the path of current electricity.



A. Name the objects represented by the symbols.

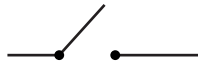
wire switch light bulb battery



1. _____



2. _____



3. _____



4. _____

B. Match the circuit with the correct schematic. Write the letters.

