

Lisa is writing a journal about her first-ever trip to Toronto.

1. Lisa's parents let Lisa and her elder brother Morgan take an airplane by themselves to Toronto to visit their uncle. Lisa and Morgan were excited about this trip.

Lisa's parents bought each of them a roundtrip ticket.

What was the total cost of the tickets with 12% tax?

- A. \$958
 B. \$1072.96
 C. \$1321.60
 D. \$1718.08

Mission Travel Centre

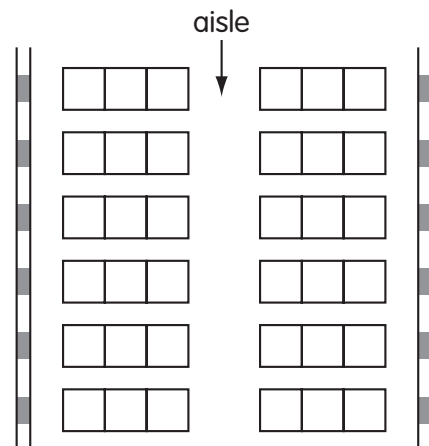
From: Vancouver, BC To: Toronto, ON

- Round trip Adult: **\$479**
 Children under 5: **\$288**
- One-way Adult: **\$295**
 Children under 5: **\$196**

2. Lisa wanted to have a seat by the window. There is one aisle on the plane with three seats each on both sides. There are 24 rows of seats in all.

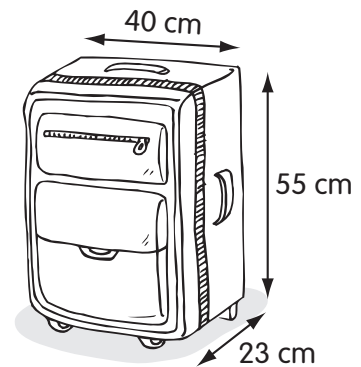
What was the probability that Lisa would get a desired seat?

- A. $\frac{1}{3}$
 B. $\frac{2}{3}$
 C. $\frac{2}{24}$
 D. $\frac{2}{48}$



3. Wynn Airline has a size restriction on each piece of luggage. The maximum size of each luggage is 55 cm x 23 cm x 40 cm.

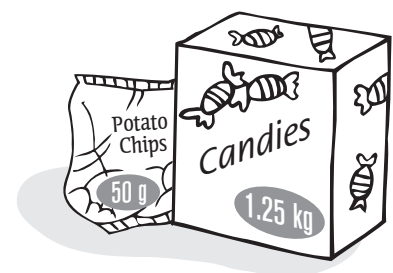
The volume of Morgan's luggage was half the maximum volume specified by the airline. The height and width of Morgan's luggage are 46 cm and 22 cm. What was the length of Morgan's luggage?



- A. 27.5 cm
B. 50 cm
C. 25 cm
D. 20 cm
4. Lisa and Morgan had three pieces of check-in luggage. The two large suitcases weighed $12\frac{2}{5}$ kg and $14\frac{1}{4}$ kg respectively. The third one weighed $10\frac{1}{10}$ kg. What was the total weight of the three pieces of luggage?

- A. $36\frac{7}{10}$ kg
B. $36\frac{4}{19}$ kg
C. $26\frac{3}{4}$ kg
D. $36\frac{3}{4}$ kg
5. Lisa had prepared some snacks for Morgan and herself to enjoy on the plane. She had a box of candies that weighed 1.25 kg and n bags of potato chips that weighed 50 g each. How many kilograms of snacks did Lisa have in all?

- A. $1.25 + 50n$
B. $1.25 + 0.05n$
C. $50 + 1.25n$
D. $0.005n + 1.25n$



12. There were two conveyor belts moving the luggage from the plane to the luggage pick-up area.

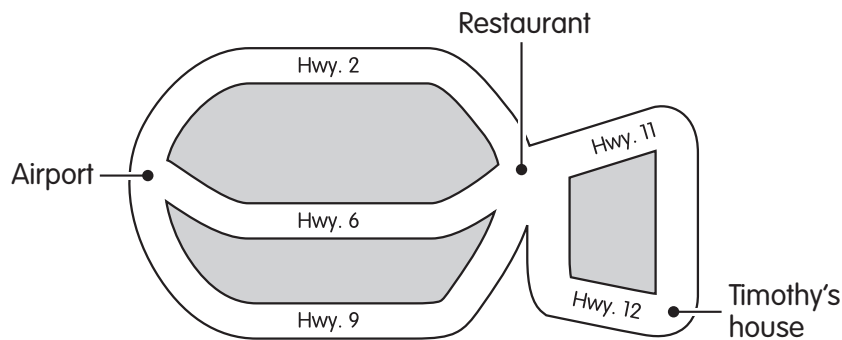
The conveyor belts were operating at the same time. Belt A moved 5 pieces of luggage in one minute and Belt B moved 13 pieces of luggage every 3 minutes.

There were 336 pieces of luggage on the plane.

What was the maximum time (in minutes) that Lisa and Morgan had to wait before they could get their luggage?

Show ALL your work

13. Uncle Timothy picked up Lisa and Morgan at the airport. On the way back to his house, he planned to go to a restaurant to pick up some food that he ordered.



Highway	Length
2	93.14 km
6	73.55 km
9	84.36 km
11	65.45 km
12	45.86 km

Draw a tree diagram to show all the possible routes that Uncle Timothy could take. Find the shortest route.

Uncle Timothy drove at an average speed of 100 km/h on the highways. How long did it take Uncle Timothy to drive the children to his house by taking the shortest route?

Show ALL your work