Problem Solving

Divisibility

Use the table to answer the questions.

1. Which city’s subway has a length that is a prime number of miles?

2. Which subway could be evenly broken into sections of 2 miles each?

3. Which subways could be evenly broken into sections of 5 miles each?

4. Which subways could be evenly divided into sections of track that are each 3 miles long?

5. Which subway’s length is not a prime number, but is also not divisible by 2, 3, 4, 5, 6, or 9?

6. Which subway’s length is divisible by 4 miles?

7. Which subway’s length is divisible by 7 miles?

Circle the letter of the correct answer.

8. The subway in Hong Kong, China, has a length that is a prime number of miles. Which of the following is its length?
   A 260 miles
   B 268 miles
   C 269 miles
   D 265 miles

9. The subway in St. Petersburg, Russia, has a length that is divisible by 3 miles. Which of the following is its length?
   F 57 miles
   G 56 miles
   H 55 miles
   J 58 miles