mapymath

**Think. Solve.
Explore your world.**

Age 8-9

Booklet 1

Age 8-9
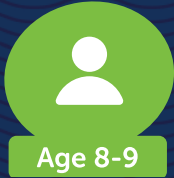
What's inside this booklet?

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How the journey works

Questions are grouped by the six world regions on the left of the page. Under each region, you'll see one question on each of MapyMath's subject areas: Geography, Society, Economy and Politics.

That's 24 math questions to broaden your picture of your world!

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Americas

Question 1 Canada's coastline is the world's longest, with its Arctic islands and touching three oceans! For every 1 km of its coastline, other countries have 3 km. What's Canada's coastline as a fraction of the world's total?

Geography

Question 2 New York City is home to 19 million people—the largest city in the United States—and another 65 million visit the city each year! What's the total number of people (residents and visitors) in the city each year?

Society

Question 3 If you're drinking orange juice, it's likely from the United States, Brazil or Mexico. The United States makes less than Brazil; Brazil makes more than Mexico. Does this tell you all you need to rank them 1st to 3rd?

Economy

Question 4 In 2008, Ecuador became the first country to grant legal rights to nature, similar to rights of people; Bolivia was second, 24 months after Ecuador. In which year did Bolivia pass its law?

Politics

Europe

Question 5 Europe's highest point is Russia's Mountain Elbrus—a volcano that formed 2.5 million years ago! Its tallest peak is at 5,462 m. How does its height break down into number of thousands, hundreds, tens and ones?

Geography

Question 6 Monaco, one of the world's smallest countries, has the world's oldest population. Out of every 10 people, three are age 65 or over! How many out of every 100 people are age 65 or over?

Society

Question 7 In 2002, 12 countries started using the Euro, now the world's second most popular currency. 14 other countries agreed to use it, but only half of them use it today. How many countries currently use the Euro?

Economy

Question 8 In addition to being the monarch of the United Kingdom, Queen Elizabeth II is the Head of State of 15 independent countries! Does the number of countries round closer to 10 or 20?

Politics

Far East &
Oceania

Question 9 Indonesia is the world's most populated country made up only of islands—13,000 in total! However, nobody lives on 12,000 of them. How many of Indonesia's islands have people living on them?

Geography

Question 10 There are 1.4 billion people in China—the world's highest! 0.8 billion live in urban areas (cities and towns); 0.6 billion live in rural areas (villages and farms). Are China's people mostly urban or rural?

Society

Question 11 China and Japan are the world's top car makers, with output that equals everyone else combined! China makes 27 million cars per year; Japan makes one third of this number. How many cars does Japan make?

Economy

Question 12 In 1893, New Zealand became the first country to let women vote, but let them run for office 26 years later. The first woman was elected 14 years after that. How long passed from women voting to being elected?

Politics

Central &
South Asia

Question 13 The 10 tallest mountains include three in Nepal, four across the Nepal-China border, one across Nepal-India, one across Pakistan-China and one in Pakistan. To visit all 10, which countries must you visit?

Geography

Question 14 Bangladesh is crowded, with one thousand, two hundred and fifty-two people per square kilometer! What is this in number format? Hint: one number, one symbol and one abbreviation with an exponent.

Society

Question 15 Baikonur in Kazakhstan is the world's oldest space launch station. Each year, Russia pays Kazakhstan $120 million for the right to use it and spends $160 million to run it. What does Russia spend in total?

Economy

Question 16 Jawaharlal Nehru was India's first Prime Minister, serving 17 years. His daughter, Indira Gandhi, led India for 11 years, and grandson Rajiv Gandhi for five years. Together, for how long did they lead India?

Politics

Africa &
Middle East

Question 17 The world's lowest land point is the surface of the Dead Sea, at 430 m below the world's sea level! If it continues moving lower by 1 m per year, how deep below the world's sea level will it be in 10 years?

Geography

Question 18 Nigeria is Africa's most populated country with 214 million people. Next year, it's expected to reach 220 million, and the year after 226 million. How would you describe the pattern of its population increase?

Society

Question 19 Out of all the oil in the ground, the Middle East has three of the top five sources! Saudi Arabia has double Iran's and double Iraq's level. Together, do Iran and Iraq have equal to Saudi Arabia's level?

Economy

Question 20 The Ottoman Empire ruled for 622 years from its Istanbul base. It started with Sultan Osman I and switched leaders 38 times. In three of these switches, a former leader returned. How many leaders did it have?

Politics

International

Question 21 Antarctica, which covers the South Pole, has ⁸⁄₁₀ of the world's fresh water. However, it's almost entirely frozen ice! For every 10 L of fresh water in the world, what amount is from outside Antarctica?

Geography

Question 22 The world has 7,000 different languages! However, the majority of people speak one of the 100 most common languages. How many languages are spoken by fewer people?

Society

Question 23 The value of all things people make and services they provide each year—the world economy—is very large: $85 trillion! If it grows by $3 trillion per year, how many years will it take to reach $100 trillion?

Economy

Question 24 The United Nations Security Council has five permanent members: United States, United Kingdom, France, Russia and China. Twice this number are rotating members. What's the total number of members?

Politics

Answers & Solutions

Americas

Question 1	**¼**
Solution	$1 / (1 + 3) =$ ¼
Question 2	**84 million people**
Solution	$19 + 65 = 84$
Question 3	**No**
Solution	Brazil > United States, Mexico. Unclear if United States > or < Mexico.
Question 4	**2010**
Solution	$2008 + (24 ÷ 12) = 2008 + 2 = 2010$

Europe

Question 5	**Five thousands, four hundreds, six tens, two ones**
Solution	n/a
Question 6	**30 people**
Solution	$3 \times (100 ÷ 10) = 3 \times 10 = 30$
Question 7	**19 countries**
Solution	$12 + (14 ÷ 2) = 12 + 7 = 19$
Question 8	**20 countries**
Solution	n/a

Far East & Oceania

Question 9	**1,000 islands**
Solution	$13,000 - 12,000 = 1,000$
Question 10	**Mostly urban**
Solution	$0.8 > 0.6$
Question 11	**9 million cars**
Solution	$27 ÷ 3 = 9$
Question 12	**40 years**
Solution	$26 + 14 = 40$

Answers & Solutions

Central & South Asia

Question 13   **Nepal and Pakistan**
Solution   n/a

Question 14   **1,252 / km²**
Solution   n/a

Question 15   **$280 million**
Solution   120 + 160 = 280

Question 16   **33 years**
Solution   17 + 11 + 5 = 33

Africa & Middle East

Question 17   **440 m**
Solution   430 + (10 x 1) = 430 + 10 = 440

Question 18   **Rising by six million people per year**
Solution   214 to 220 = 6; 220 to 226 = 6

Question 19   **Yes**
Solution   ½ + ½ = 1

Question 20   **36 people**
Solution   1 + 38 - 3 = 36

International

Question 21   **2 L**
Solution   10 - 8 = 2

Question 22   **6,900 languages**
Solution   7,000 - 100 = 6,900

Question 23   **5 years**
Solution   (100 - 85) ÷ 3 = 5

Question 24   **15 members**
Solution   5 + (5 x 2) = 5 + 10 = 15

Scoring Tracker

/24 Grand Total	Geography	Society	Economy	Politics
Americas	1 +1 +0	2 +1 +0	3 +1 +0	4 +1 +0
Europe	5 +1 +0	6 +1 +0	7 +1 +0	8 +1 +0
Far East & Oceania	9 +1 +0	10 +1 +0	11 +1 +0	12 +1 +0
Central & South Asia	13 +1 +0	14 +1 +0	15 +1 +0	16 +1 +0
Africa & Middle East	17 +1 +0	18 +1 +0	19 +1 +0	20 +1 +0
International	21 +1 +0	22 +1 +0	23 +1 +0	24 +1 +0

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