

Mathspace

Our global village

Facts about our global village

There are over 6.9 billion people on Earth today. Who is this large community composed of?

- Convert the following facts to percentages to find out.

- Wealth**
 - 0.06 of the population own 59% of the entire wealth
 - $\frac{1}{5}$ of the population have 75% of the income
 - 0.53 of the population live on \$2.50 or less per day

Education and technology

- 0.61 Asian
- $\frac{12}{100}$ European
- 0.08 North American
- 0.05 South American & Caribbean
- 0.13 African
- $\frac{1}{100}$ Oceania (this includes Australia)

How rich are you?

- If you have a bed to sleep on, food to eat and a roof over your head, you're richer than what percentage of the entire world's population?
- $\frac{1}{3}$ don't have access to clean, safe drinking water
- 0.13 are hungry and/or malnourished

Conditions

- 0.43 live without basic sanitation

- $\frac{1}{3}$ don't have access to clean, safe drinking water

- 0.13 are hungry and/or malnourished

- To find out, complete this decimal calculation and convert your answer to a percentage.

How many people?

Currently, there are approximately 6 900 000 000 people living on Earth.

- Using the facts you now know about our world, calculate how many people:

- (i) don't have access to clean water
- (ii) struggle to live on \$2.50 or less per day
- (iii) have a computer
- (iv) don't have a secondary school education.

I want to help

There are many charities out there that are trying to create more equality in the world—Oxfam is one generosity of ordinary people. Here is a pie chart of the age groups of Oxfam volunteers.

Volunteers by age group



- Using the pie chart above, find out the following.

- (a) What percentage of volunteers are between 18 and 30?

- (b) Why do you think most volunteers are in this age range?

In the future

- Imagine it's the year 2055. How do you hope the 'global village' percentages have changed? Write down your predictions and ideas.



Answers

MATHSPACE: OUR GLOBAL VILLAGE

1 Race

- 61% Asian
- 12% European
- 8% North American
- 5% South American and Caribbean
- 13% African
- 1% Oceania

Conditions

- 43% live without basic sanitation
- 33.3% don't have access to clean, safe drinking water
- 13% are hungry and/or malnourished

Wealth

- 6% of the population own 59% of the entire wealth
- 20% of the population have 75% of the income
- 53% of the population live on \$2.50 or less per day

Education and technology

- 14% can't read
- 7% have a secondary education
- 12% have a computer
- 3% have the internet

$$2 \quad 0.75 = 75\%$$

- 3 (a) $\frac{1}{3} \times 6\,900\,000\,000 = 2\,300\,000\,000$ people
- (b) $0.53 \times 6\,900\,000\,000 = 3\,657\,000\,000$ people
- (c) $0.12 \times 6\,900\,000\,000 = 828\,000\,000$ people
- (d) $100 - 0.07 = 0.93, 0.93 \times 6\,900\,000\,000 = 6\,417\,000\,000$ people

$$4 \quad (a) \quad 43 + 28 = 71\%$$

- (b) Possible answer: People in this age range often have fewer responsibilities so they have more time to give.

- (c) $100 - 24.4 - 8.9 = 66.7\%$ available

- 5 Students' own answers.

notes: