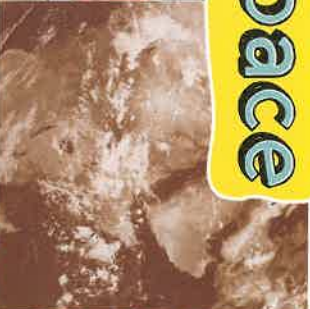




Mathspace



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?

1 Convert the following facts to percentages to find out.

Race

- 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)

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

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

- 0.14 can't read
- 0.07 have a secondary education
- 0.12 have a computer
- 0.03 have the internet

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?

2 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.

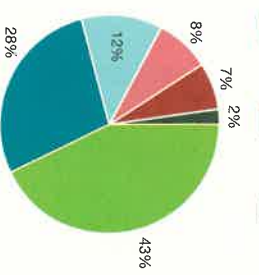
3 Using the facts you now know about our world, calculate how many people:

- don't have access to clean water
- struggle to live on \$2.50 or less per day
- have a computer
- 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 of these. Charities often rely on the generosity of ordinary people. Here is a pie chart of the age groups of Oxfam volunteers.

Volunteers by age group



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

- What percentage of volunteers are between 18 and 30?
- Why do you think most volunteers are in this age range?
- One of the challenges charities face is the need to pay for fundraising and administration costs. If Oxfam spends 24.4% of its income on fundraising and 8.9% on administration costs, what percentage of its income is available to go directly to community-aid projects?

In the future

5 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 $0.75 = 75\%$

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

(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: