



## **YOUNG LIVES**

**ROUND 4 SURVEY VIETNAM  
NOVEMBER 2013 – JANUARY 2014**

**MATHEMATICS TEST QUESTIONNAIRE**  
(Originally administered in Vietnamese)

**OLDER COHORT**



**Young Lives is funded by UK aid from the  
Department for International Development (DFID)**

**[www.younglives.org.uk](http://www.younglives.org.uk)**

This redacted item was taken from TIMSS 2003 Released Items: Fourth Grade Mathematics  
(Unique ID: M011011)

SOURCE: TIMSS 2003 Assessment. Copyright © 2005 International Association for the Evaluation  
of Educational Achievement (IEA).

Publisher: TIMSS & PIRLS International Study Center, Lynch School of Education, Boston College.

This redacted item was taken from TIMSS 2003 Released Items: Fourth Grade Mathematics  
(Unique ID: M031310)

SOURCE: TIMSS 2003 Assessment. Copyright © 2005 International Association for the Evaluation  
of Educational Achievement (IEA).

Publisher: TIMSS & PIRLS International Study Center, Lynch School of Education, Boston College.

This redacted item was taken from TIMSS 2003 Released Items: Eighth Grade Mathematics  
(Unique ID: M032671)

SOURCE: TIMSS 2003 Assessment. Copyright © 2005 International Association for the Evaluation  
of Educational Achievement (IEA).

Publisher: TIMSS & PIRLS International Study Center, Lynch School of Education, Boston College.

4. Write the correct answer in the space:

$$25\% \text{ of } 240 = \square$$

5. Write the correct answer in the space:

$$9,81 + 7,62 = \square$$

6. Write the correct answer in the space:

$$9/8 \times 2/3 = \square$$

This redacted item was taken from TIMSS 2003 Released Items: Fourth Grade Mathematics  
(Unique ID: M031316)

SOURCE: TIMSS 2003 Assessment. Copyright © 2005 International Association for the Evaluation  
of Educational Achievement (IEA).

Publisher: TIMSS & PIRLS International Study Center, Lynch School of Education, Boston College.

8. Solve  $3.5 \times 2.4 =$  \_\_\_\_\_

- a. 0.84
- b. 2.10
- c. 84.0
- d. 8.40

9. Solve  $0.624 \div 1.04 =$  \_\_\_\_\_

- a. 0.06
- b. 0.60
- c. 60
- d. 6

This redacted item was taken from TIMSS 2003 Released Items: Eighth Grade Mathematics  
(Unique ID: M032079)

SOURCE: TIMSS 2003 Assessment. Copyright © 2005 International Association for the Evaluation  
of Educational Achievement (IEA).

Publisher: TIMSS & PIRLS International Study Center, Lynch School of Education, Boston College.

11. Solve  $\frac{4}{5} + \frac{2}{5} \times 0.2 + 1.4 =$  \_\_\_\_\_

- a. 1.48
- b. 1.64
- c. 2.28
- d. 1.92

12. Find the missing term of the following progression

1, 2, 4, \_\_, 11, 16, 22

- a. 6
- b. 8
- c. 12
- d. 7

13. An alloy is made of gold and silver in the ratio 1 [gram] of gold to 4 [grams] of silver. What is the weight, in [grams], of silver in 40 [grams] of this alloy?


- a. 8
- b. 32
- c. 10
- d. 30

This redacted item was taken from TIMSS 2003 Released Items: Eighth Grade Mathematics (Unique ID: M032271)

SOURCE: TIMSS 2003 Assessment. Copyright © 2005 International Association for the Evaluation of Educational Achievement (IEA).

Publisher: TIMSS & PIRLS International Study Center, Lynch School of Education, Boston College.

Below is a medicine description. Read it carefully.

A starburst graphic with multiple points, containing text about the cost of the medicine.

Each box costs

**[\$15]**

## **[CIPIRINA]**

**INGREDIENTS:** Each tablet contains 500 mg *acetaminophen* acid

**DOSAGE:** ORAL. 1 or 2 tablets every 4 hours, preferably accompanied by food, for not longer than 28 days. In the case of children, only 1 tablet every 8 hours for not longer than 10 days.

**INDICATIONS:** [Cipirina] is often used to relieve different symptoms. This medication relieves mild to moderate pain in the muscles of the hands and legs. It reduces fever, bone pain and menstrual symptoms.

**CAUTION:** [Cipirina] may cause drowsiness, gastric pain, allergies or ulcers. Children up to 10 years with chicken pox and

Based on the text, answer the following questions by marking the correct answer with an X.

15. According to the description, how many tablets can a child take in one day?

- a. 2 tablets
- b. 1 tablet
- c. 3 tablets
- d. 8 tablets

16. If [Arturo] takes the largest amount of pills recommended for adults, how many more pills can he take compared with a child in two days?

- a. [Arturo] can take 18 pills more than a child
- b. [Arturo] can take 3 pills more than a child
- c. [Arturo] can take 9 pills more than a child
- d. [Arturo] can take 7 pills more than a child

17. [Ana's] doctor tells her to take 2 tablets every 12 hours for a week. How many mg of acetaminophen will [Ana] have taken in total by the end of the week?

- a. 14 000 mg
- b. 7 000 mg
- c. 21 000 mg
- d. 12 000 mg

18. [Mario] wants to buy 7 boxes. When he was going to pay the cashier told him that there was a 25% discount on the tablets he was buying. Which mathematical operation(s) is (are) needed to get the amount of money he paid for his medicine?

- a. Only multiplication
- b. Multiplication, division and subtraction
- c. Division and multiplication
- d. Addition and subtraction

19. Find the missing term of the following progression

2, 16, 4, 14, \_\_, 12, 16, 10, 32

- a. 8
- b. 6
- c. 7
- d. 10

20. Tickets for a train cost either 10 [dollars], 15 [dollars], or 30 [dollars]. Of the 900 tickets sold,  $\frac{1}{5}$  cost 30 [dollars] each and  $\frac{2}{3}$  cost 15 [dollars] each. What fraction of the train tickets was sold for 10 [dollars] each?

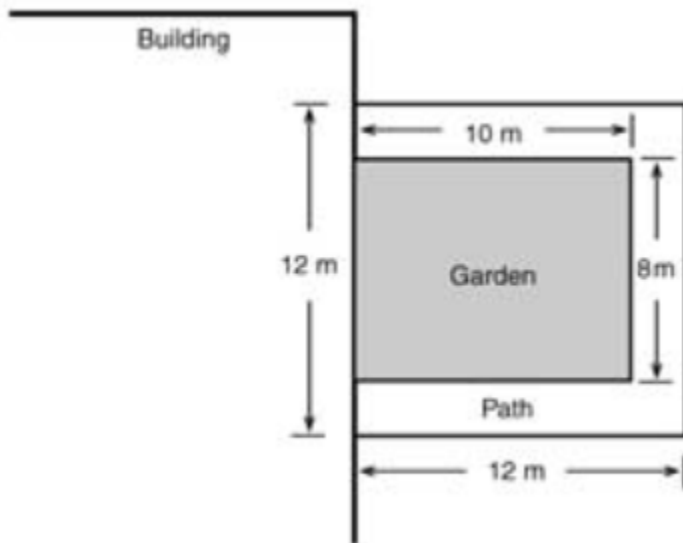
- a.  $\frac{2}{15}$
- b.  $\frac{1}{15}$
- c.  $\frac{12}{15}$
- d.  $\frac{6}{15}$

This redacted item was taken from TIMSS 2003 Released Items: Fourth Grade Mathematics (Unique ID: M022127)

SOURCE: TIMSS 2003 Assessment. Copyright © 2005 International Association for the Evaluation of Educational Achievement (IEA).

Publisher: TIMSS & PIRLS International Study Center, Lynch School of Education, Boston College.

22. A rectangular garden that is next to a building has a path around the other three sides, as shown.

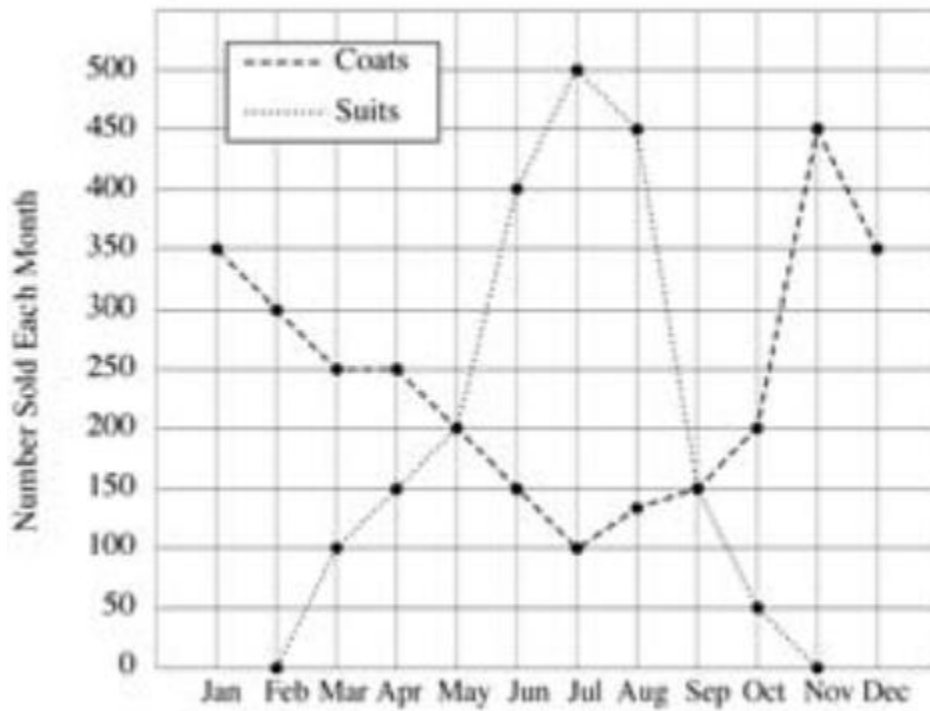


What is the area of the path?

- a.  $144\text{m}^2$
- b.  $64\text{m}^2$
- c.  $44\text{m}^2$
- d.  $16\text{m}^2$



This graph shows the number of suits and coats sold each month



23. According to the information in the graph, during which two-month period does the greatest increase in coats sales occur?

- a. December – January
- b. May – June
- c. June – July
- d. October - November

24. The average age of a team of 11 members is 22 years. When a team member leaves the team, the average age of the remaining members is 21 years. How old was the member who left the team?

25. A pipe fills vase in a 1 hour period, while another pipe fills a similar vase in about 2 hours. If both pipes are used how long it will take to fill the vase?

26. If a tire spins at 400 revolutions per minute when the car is moving at a speed of 72 km/h. What is the perimeter of the tire? Enter the answer in the box

27. A rectangular plot has an area of 300 m<sup>2</sup>. Its perimeter is 70 m. Find the length and width of the rectangle. Enter the answer in the box