# MATHS SERIES

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## Measurements Test Questions

Below are sample questions from the TIMSS achievement tests in Science administered to twenty-six countries. TIMSS is a research project sponsored by the International Association for the Evaluation of Educational Achievement (IEA). These questions may be used in the classroom, as a tool for evaluation, or to provide examples of test-question writing. The sample questions are grouped by grades 3 and 4 and by grades 7 and 8.

### Grades 3 and 4

1. Which of these is largest?
A. 1 kilogram
B. 1 centigram
C. 1 milligram
D. 1 gram

Answer: A

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2. Elena worked 57 hours in March, 62 hours in April, and 59 hours in May. Which of these is the BEST estimate of the total number of hours she worked for the three months?
A. 50+50+50
B. 55+55+55
C. 60+60+60
D. 65+65+65

Answer: C

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3. A thin wire 20centimeters long is formed into a rectangle. If the width of this rectangle is 4 centimeters, what is its length?
A. 5 centimeters
B. 6 centimeters
C. 12 centimeters

D. 16 centimeters

Answer: B

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4. The weight (mass) of a clothespin is 9.2 g. Which of these is the best estimate of the total weight (mass) of 1000 clothespins?
A. 900g
B. 9000g
C. 90 000g
D. 900 000g

Answer: B

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5. Four children measured the width of a room by counting how many paces it took them to cross it. The chart shows their measurement.

| Name | Number of paces |
|------|------|
| Stephen | 10 |
| Erlane | 8 |
| Ana | 9 |
| Carlos | 7 |

Who had the longest pace?
A. Stephen
B. Erlane
C. Ana
D. Carlos

Answer: D

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6. Which of these would most likely be measured in milliliters?

A. The amount of liquid in a teaspoon
B. The weight (mass) of a pin
C. The amount of gasoline in a tank
D. The thickness of 10 sheets of paper

Answer: A

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7. Mr. Brown goes for a walk and returns to where he started at 07:00. If his walk took 1 hour and 30 minutes, at what time did he start his walk?

Answer:_____

Answer: 05:30 or 5:30

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8. How many millimeters are in a meter?

Answer:_____

Answer: 1000

## Grades 7 and 8

1. The number of 750 mL bottles that can be filled from 600 L of water is
A. 8
B. 80
C. 800
D. 8000

Answer: C

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2. The length of a rectangle is 6 cm, and its perimeter is 16 cm. What is the area of the rectangle in square centimeters?

Answer:

Answer: 12

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3. Four children measured the width of a room by counting how many paces it took them to cross it. The chart shows their measurements.

| Name | Number of Paces |
|---|---|
| Stephen | 10 |
| Erlane | 8 |
| Ana | 9 |
| Carlos | 7 |

Who had the longest pace?
A. Stephen
B. Erlane
C. Ana
D. Carlos

Answer: D

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4. A cake is put in the oven at 7:20. If the cake takes three quarters of an hour to bake, at what time should it be taken out of the oven?

Answer:_____

Answer: 8:05

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5. Which of these is the longest time?
A. 15 000 seconds
B. 1 500 minutes
C. 10 hours
D. 1 day

Answer: B