

IB Chapter 8 Test Form 2A Do Not Write on Test

For any credit show all work on a separate sheet of paper for all problems.

Write the letter for the correct answer in the blank at the right of each question.

1. Find the geometric mean between 7 and 12.

A 5
B 3.5
C $\sqrt{84}$
D $2\sqrt{21}$

2. In $\triangle PQR$, $RS = 4$ and $QT = 5$. Find PS .

F 2
G 5
H $\sqrt{10}$
J $2\sqrt{5}$



3. Find x .

A $3\sqrt{2}$
B $\sqrt{14}$
C 4.5
D 3



4. Find y .

F 12
G 13
H 9
J 2



5. Find the length of the hypotenuse of a right triangle with legs that measure 5 and 7.

A 12
B $\sqrt{24}$
C $\sqrt{85}$
D $\sqrt{74}$

6. Find x .

F 3
G 4
H $4\sqrt{3}$
J $2\sqrt{6}$



7. Which set of measures could represent the lengths of the sides of a right triangle?

A 9, 40, 41
B 8, 30, 31
C 2, 8, 10
D $\sqrt{2}$, $\sqrt{3}$, $\sqrt{5}$

8. Find c .

F 7
G $7\sqrt{2}$
H $2\sqrt{3}$
J 54



9. Find the perimeter of a square if the length of its diagonal is 12 inches. Round to the nearest tenth.

A 8.5 in.
B 33.9 in.
C 48 in.
D 67.9 in.

10. Find x .

F 4
G $4\sqrt{2}$
H $4\sqrt{3}$
J $3\sqrt{3}$



Geometry Unit 8 Test Answers

Lingjun Ying

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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