

Elementary School Math League Tournament
2016

Team Round

Team # _____

School: _____

Question 1:

The area of the rectangle is 270 square inches. The length of the rectangle is 18 inches. What is the perimeter of the rectangle?

L'aire du rectangle est de 270 pouces carrés. La longueur du rectangle est de 18 pouces. Quel est le périmètre du rectangle?

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Question 2:

Daniel rode his bicycle at a constant speed. After 40 minutes, he cycled 24 km. How far did he cycle in 30 minutes?

Daniel s'est promene en vélo à une vitesse constante. En 40 minutes, il a parcouru 24 km. Quelle distance a-t-il parcourue en 30 minutes ?

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Question 3:

The ratio of boys to girls at Holy Redeemer School is 3 : 5. If there are 60 boys at the school, then how many students are there at the school?

Le rapport entre les garçons et les filles à Holy Redeemer School est de 3: 5. S'il y a 60 garçons à l'école, combien y a-t-il d'élèves à l'école?

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Question 4:

Fifty students were surveyed about their participation in hockey and baseball. The results of the survey were:

33 students played hockey

24 students played baseball

8 students played neither hockey nor baseball

How many of the students surveyed played both hockey and baseball?

On a fait un sondage auprès de 50 étudiants pour savoir s'ils pratiquent le hockey et le base-ball. Voici les résultats:

33 étudiants pratiquent le hockey.

24 étudiants pratiquent le base-ball.

8 étudiants ne pratiquent ni le hockey, ni le base-ball.

Combien de ces étudiants pratiquent les deux sports ?

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Question 5:

Charlie has been taking math tests. The average score of his first 3 tests was 95 points. The average score of his next 2 test was 90 points. What was the Charlie's average score of all 5 tests?

Charlie a fait des tests de mathématiques. Le score moyen de ses 3 premiers tests était de 95 points. Le score moyen de son prochain test 2 était de 90 points. Quel a été le score moyen de Charlie sur les 5 tests?

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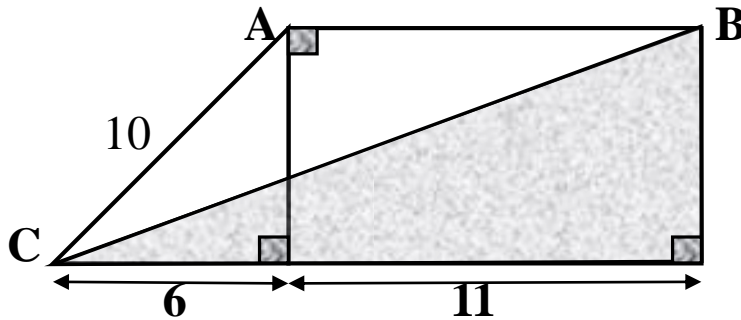
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Question 6:

Trouvez l'aire de la région non ombrée, triangle ABC.

Find the area of the non-shaded region, triangle ABC.



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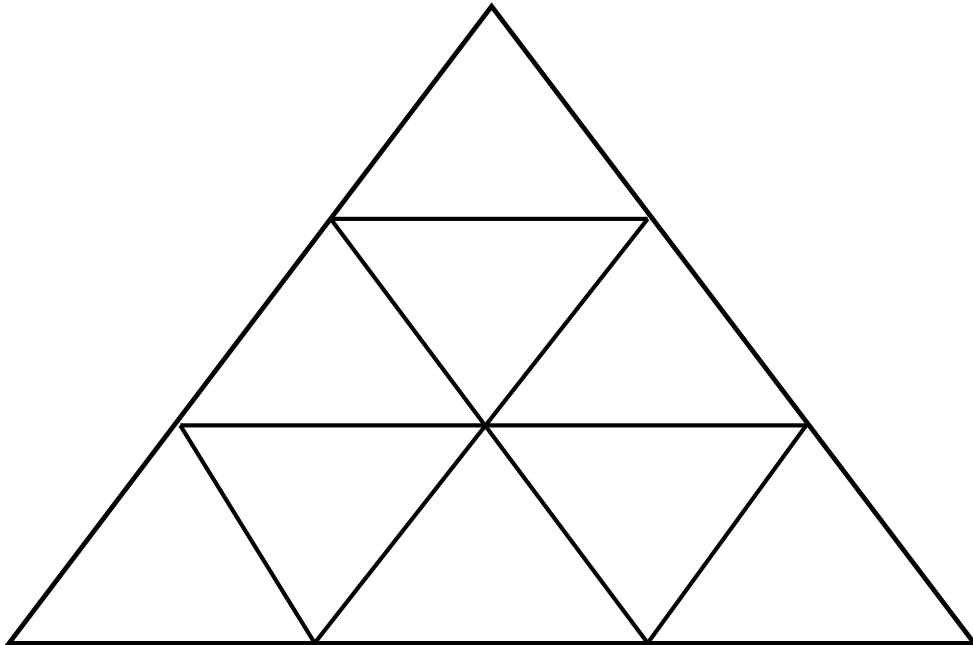
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Question 7:

Combien de parallélogrammes différents se trouvent dans la figure ci-dessous si tous les triangles sont des triangles équilatéraux identiques?

How many different parallelograms are in the figure below if all the triangles are identical equilateral triangles?



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Question 8:

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Answers

1. 66

2. 18

3. 160

4. 15

5. 93

6. 22

7. 15

8. 20%

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1. 66 inches

The other side of the rectangle is $270 \div 18 = 15$ inches. The perimeter = $18 \times 2 + 15 \times 2 = 66$ inches

2. Puisque Daniel se promène à une vitesse constante, il a parcouru, en 30 minutes, $\frac{3}{4}$ de la distance parcourue en 40 minutes, soit $\frac{3}{4} \times 24$ km, ou 18 km.

4. Since there were 50 students surveyed in total and 8 played neither hockey nor baseball, then 42 students in total played one game or the other. Since 33 students played hockey and 24 students played baseball, and this totals $33 + 24 = 57$ students, then there must be 15 students who are “double-counted”, that is who play both sports.

5. 93 Solution: $(95 \times 3 + 90 \times 2) \div 5 = 93$