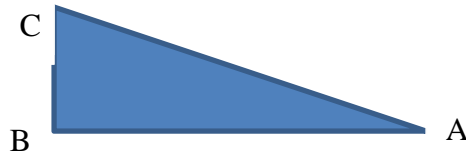


**Fiji Mathematics Team Competition - Zones**  
**Class7/ Year 7 – 2014**

- Y7/1 Point A has the coordinates (2, 2). What are the coordinates of its image point if it is translated 2 units up and 5 units to the left?

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- Y7/2 Length of side AB of the triangle is 18 cm, its area is  $108 \text{ cm}^2$  and its perimeter is 52 cm, what is the length of the side AC?

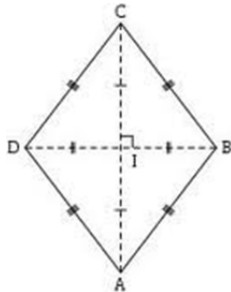


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- Y7/3 Josese bought a total of 20 game cards some of which cost \$0.25 each and some of which cost \$0.15 each. If Josese spent \$4.20 to buy these cards, how many cards of each type did he buy?

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- Y7/4 Calculate the area of the rhombus with diagonals 5cm and 8 cm?



AD = 5cm  
CA = 8cm

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- Y7/5 A car traveled 281 kilometres in 4 hours 41 minutes. What was the average speed of the car in kilometres per hour?

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Y7/6 The sum of the squares of two consecutive numbers is equal to 145. Find the two numbers.

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Y7/7 If the expense for producing a good is \$68, what will be the price if the profit of the producer is to be 15% from the cost price?

\_\_\_\_\_

Y7/8 A man bought 12 bags of rice at \$50 per bag. Find his profit if he paid \$15 for transport and sold  $\frac{3}{4}$  of the rice for \$650 and the rest at \$70 per bag?

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Y7/9 Jone runs at a speed of 40km/hr. At this rate how many meters will he run in 8 minutes?

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Y7/10 What is the equivalent value of  $3^5 \times 3^2 =$

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Y7/11 A duck flew at 18 kilometres per hour for  $3\frac{1}{4}$  hours, and then at 15 kilometres per hour for  $2\frac{1}{2}$  hours. How far did the duck fly?

\_\_\_\_\_

Y7/12 Evaluate  $11 \div (79 - 8 \times 3) + 24$

\_\_\_\_\_

Y7/13 Samuela's monthly insurance premium increased by 35% to \$54, what was the monthly **increase** in Toni's insurance premium?

\_\_\_\_\_

Y7/14 What fraction of a complete turn does the hour hand of a clock make in 20 minutes?

\_\_\_\_\_

Y7/15 An Electrical store is offering a discount of 30% on Gas oven . Calculate how much a gas oven will cost before the sale, it its sale price is \$ 499.

\_\_\_\_\_

Y7/16 A square piece of paper is folded to form a triangle. This triangle has a height of 10cm. What is the length of the base of the triangle if the area of the triangle is 25 cm<sup>2</sup>?

\_\_\_\_\_

Y7/17 Evaluate  $\frac{2}{3} - \frac{4}{8} - \frac{1}{12}$  ?

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Y7/18 Which one is a 'best buy' and by how much?

500 g of rice at \$1.80,  
or  
20 kg of rice at \$68.00?

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Y7/19 Calculate the total length of all the edges of a cuboid with dimension:  
12.2cm x 6.5cm x 4.05 cm

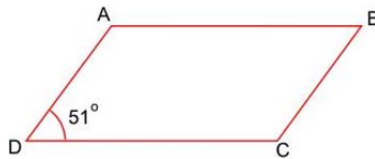
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Y7/20 Reshav is given  $\frac{1}{4}$  of a sum of money and Sahil is given  $\frac{1}{5}$  of what is left. What fraction of the original sum of money was left? Express as a fraction in its simplest form.

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Tie Breaker:

Y7/21 Find the value of angle A in the parallelogram given below.



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Y7/22 The price of a pair of shoes increased by 15%. If the new price was \$92, what was the old price?

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