

Group D

Sample Questions

- 1) In the subtraction sentence below X represents the same digit

$$X6 - 3X = 4X$$

What digit is X ?

Answer:

- 2) At the village orchard, the caretaker kept one-tenth of the harvested apples as payment for his work. If the farmer received 99 kg of apples, how many kilograms were harvested in total?



Answer:

- 3) At band rehearsal, the Brass Group can play 24 short pieces in 60 minutes. The String Ensemble can play 15 short pieces in 25 minutes. If both groups begin playing at 12:00 p.m., how many pieces will they have played by 2:00 p.m.?



Answer:

- 4) Oliver, Amelia, and Sophie sat in a row on a bench and asked Peter to take their picture.



Then they moved around and asked him to take another photo. After that, they switched places several more times, trying all possible arrangements. How many different photographs of the three girls did Peter get?

Answer:

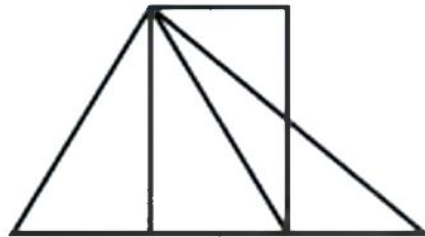
- 5) In triangle ABC, the right angle is at C, with sides $AC = 6$ cm and $BC = 8$ cm. Find the length of the median drawn from vertex C to the hypotenuse AB.

Answer:

- 6) Six players took part in a small round-robin tournament. Every player played each of the other players exactly once, and there were no draws. Helen won 4 games, Ines won 3, Janet won 2, Kendra won 2, and Lara won 2. How many games did Monica win?

Answer:

Q7. How many triangles are in this diagram?



Answer: