

1. **Answer: 8**  
Product of the roots is given by  $(k-2)/2 = 1$
2. **Answer: 3**  
Number of students scoring more than or equal to 30 = 51  
Number of students scoring more than or equal to 40 = 48  
Therefore, number of students between 30 and 40 =  $51 - 48 = 3$
3. **Answer: 10**  
The Greatest common divisor of 24, 36, 60 is 12. So, number of fruits in each row = 12  
So, number of rows =  $24/12 + 36/12 + 60/12 = 10$
4. **Answer: Parabolic**
5. **Answer: 20 degrees**  
 $\cos 60 = \frac{1}{2}$   
So,  $3A = 60$
6. **Answer: Similar by SAS criterion**
7. **Answer: 0**  
The first six terms of this series will be -5, -3, -1, 1, 3, 5. So, the sum will be zero.
8. **Answer: 12 units**  
The triangle will be a right-angled triangle with sides 3, 4, 5.
9. **Answer:  $480 \times /6000 = 0.08$**
10. **Answer: 5 cm**  
Both will be right-angled isosceles triangles.
11. **Answer: 42**
12. **Answer: Parallel lines, consistent**  
Parallel lines do not intersect, so the equations will have no solution.

TutorSchool<sup>TM</sup>