





- Holiday's homework

 Maths

 (I find the value of a and b if √2 ⊥ √3 = (a + b√6)

 3√2 − 2√3

 2. If a and b are rational numbers and √11 − √7 = a − b √77, then find the values of a and b.

 -√11 + √7

 3. In a survey, it was found that 9 out of every 11 households are donating some amount of their income to an orphanage or old age home or institutions for physically handicapped.

 1. What fraction of households is not donating?

 11. What values of society are depicted in this question?

 4. If (a)²⁻¹ − (16)² = 334, then find the value of x.

 5. Assuming that x, y, z are positive real numbers and the exponents are all rational numbers, show that

 6. Evaluate 40 when it is given 10 = 3.162 and 5 = 2.23

 2 10 + 20 + 30 − 2 5

 7. Find the area of a friangle whose two sides are 24cm and 10cm and the perimeter of the triangle is 62cm.

 8. A field is in the shape of a trapezium whose parallel sides are 25cm and 10cm, the non parallel sides are 14cm and 13cm, find the area of the field.

 9. If ABC is an isosceles triangle with AB = AC. The perimeter of the triangle is 36cm and AB=10cm. what is the area of triangle?

 10. ABCD is a rhombus whose parallelogram have the same area. If the sides of the triangle are 26cm, 28cm and 30cm and the parallelogram have the same area. If the sides of the triangle are 26cm, 28cm and 30cm and the parallelogram have the same area. If the sides of the triangle are 26cm, 28cm and 30cm and the parallelogram have the same area. If the sides of the triangle are 26cm, 28cm and 30cm and the parallelogram have the same area. If the sides of the triangle are 26cm, 28cm and 30cm and the parallelogram have the same area. If the sides of the triangle are 26cm, 28cm and 30cm and the parallelogram have the same area. If the sides of the triangle are 26cm, 28cm and 30cm and the parallelogram have the same area. If the sides of the triangle are 26cm, 28cm and 30cm and the parallelogram have the same area. If the sides of the triangle are 10cm. The parallelogram have the same area. If the sides of the tri

- 17. Solve: \$\frac{1}{2}\$ (3x + y)^2 + 6(3x + y) 8

 19. If \$\frac{1}{12}\$ y^2 \frac{1}{2}\$ = \frac{1}{12}\$, then find the value of x.

 20. Factorise \$7x^2 + 2\$ \frac{1}{14}\$ \times 2.

 PROJECT

 Construct a real life object or a work of art or any mathematical model to illustrate your understanding of congruent triangles.

 Use any one or more than one of the of the five criterions (\$5\$\$, \$A\$\$, AA\$\$, A\$\$A\$, HL) for congruency to make your model.

 Please mark all the congruent triangles for identification. They should be color coded to showcase one congruency criterion using that one colour (for instance, the two triangles with the A\$\$A\$ criterion could be colored in red). The angle and side measures should be labeled or written on a piece of paper.

 If you are creating a real-life project, possible materials could be charts, packing material, cardboard, craft, stickers, tooth picks, stickers and magnets etc. The geometric instruments that can be used for a real life project are a protractor, straight edged ruler etc.

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