



**Pre Grade 10 Assessment Test for Mathematics**

- 1) Find the value of  $\frac{2}{3} \div \frac{5}{9} \times \frac{5}{2}$
  
- 2) Evaluate  $2 + 3 \times 5$
  
- 3) Find the value of  $(2 + 3 - 1)^2$
  
- 4) What is the value of a)  $\frac{0}{2}$  b)  $\frac{2}{0}$  c)  $\frac{0}{0}$  ?
  
- 5) Express 64 as a power of 2
  
- 6) Find the value of  $2 + \frac{1}{3} + \frac{3}{7}$
  
- 7) How many quarter kilos are there in  $5\frac{1}{2}$  kilos?

8) For a new motor bike, the recommended ratio of gas to oil is 25:1, by volume. How much gas and how much oil are needed to fill a 13 L tank on a new motor bike?

9) Simplify  $5 - 2(2x - 3)$

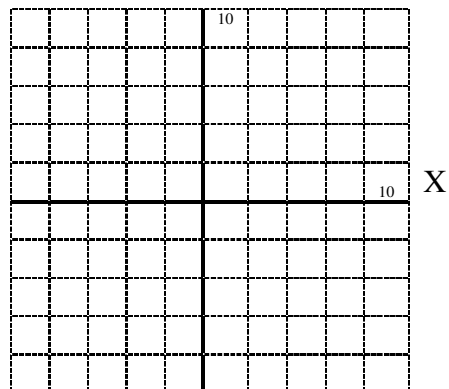
10) Solve for x:  $9 - 7x = 11 - 5x$

11) If  $a = -3$  find the value of  $-a^2$

12) If 9% of a number is 72, find the number.

13) Factor  $9a^3b^2 - 12a^2b^4 + 3a^2b^2$

14) Sketch the graph of  $3x - y - 2 = 0$

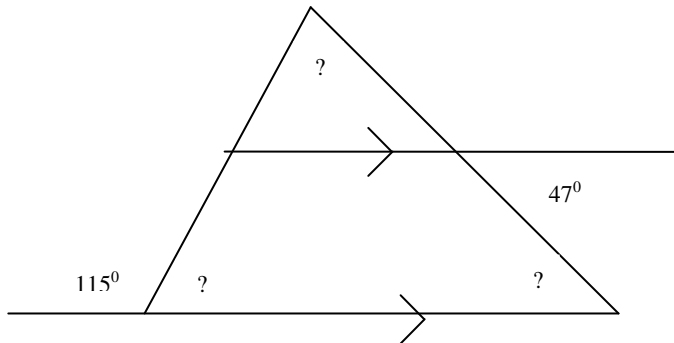


15) Evaluate  $\frac{2^{12}}{2^4}$ ,  $2^0$ , and  $2^{-1}$

16) Solve  $\frac{x}{3} - \frac{3x}{2} = \frac{1}{6} - x$

17) Determine the equation of a line perpendicular to  $x - 5y + 2 = 0$  and passing through the point (1,2)

18) Find the value of each angle marked with ?



19) Find the perimeter and the area of the figure shown below.

