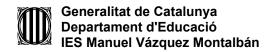
UF1. Activitats

- 1. Determina el resultat de les expressions numèriques següents (tal i com es mostra a l'exemple):
 - a) 3 + 7/3 * 2 15 => 3 + 2*2 15 = 3 + 4 15 = -8
 - b) $32\%4 + 12 4 * 3 \Rightarrow 0 + 12 12 = 0$
 - c) 9-86/(4*3)+4=9-86/12+4=9-7+4=6
 - d) $42/8 (3 * 14) + 6 \Rightarrow 42/8 42 + 6 = 5 42 + 6 = -31$
- 2. Si els valors de les variables a, b i c són respectivament, fals, fals i cert, determina el valor de les expressions lògiques següents:
 - a = fals
 - b = fals
 - c = cert
 - a) c AND !a OR b => t AND !f OR f = t AND t OR f = t OR f = True
 - b) a OR b OR c => f OR f OR t = f OR t = True
 - c) !(a OR b) AND c => (f OR f) AND t = !f AND t = f AND f = True
 - d) !a AND !b AND c => t AND t AND t = t AND t = True
- 3. Si m=5, n=-4, a=false i b=true, determina el valor de les expressions següents, o dir si provoquen alguna mena d'error (en cas que hi hagi):
 - a) m >= n = 5 > = -4 = True
 - b) (m < n)! = (a OR b) = (5 < -4)! = (f OR t) = f! = t = True
 - c) $!(m \ge 1/(10 + n)) = !(5 \ge (1/(10 + -4))) = !(5 \ge 1/6) = !(5 \ge 0)) = !(1) = False$
 - d) $!(m \le 1\%(9 + n)) = !(5 \le 1\%(5)) = !(5 \le 1) = !f = True$
 - e) m * m < n * n = 25 < 16 = False
 - f) a OR b < b = f OR f = False
 - g) $!m >= 1/(10 + n) = -5 >= \frac{1}{6} = -5 >= 0 = False$
- 4. Si x=-3, y=7 i r=0, determina el valor de les expressions següents i el valor final de r:
 - a) r = x == y => 0 = -3 == 7 = False 0
 - b) r = x > y => 0 = -3 > 7 = False 0
 - c) r = x != y => 0 = -3 != 7 = True 1





5. Si p=3, q=12 i r=-1, determina el valor de les expressions següents i el valor final de r:

- a) r = (p!= 0) AND (q!= 0) => -1 = (3!= 0) AND (12!= 0) = -1 = (t) AND (t) = -1 = True
- b) r = (p!= 0) OR (q > 0) = -1 = (3!= 0) OR (12 > 0) = -1 = (t) OR (t) = -1 = True
- c) r = (q < p) AND (p <= 10) => -1 (12 < 3) AND (3 <= 10) = -1 (f) AND (t) = -1 = False
- 6. Determina el resultat de les expressions numèriques següents:
 - a) (2==1) || (-1==-1) => (Fals) OR (True) = True
 - b) (2==2) && (3==-1) => (True) AND (False) = False
 - c) ((2==2) && (3==3)) || (4==0) => (True) AND (True) = True
 - d) ((6==6) || (8==0)) && ((5==5) && (3==2)) => (True) OR (False) AND (True) AND (False) = True OR False AND False = True
- 7. Determina el resultat de les expressions següents:
 - a) (1 > 0) && (3 == 3) => cert AND true = TRUE
 - b) $(0 < 5) \mid | (0 > 5) =$ true OR false = TRUE
 - c) (5 < = 7) && (2 > 4) = > true AND false = FALSE
 - d) (6 == 1) | | (7 >= 4) => false OR true = TRUE