

Solutions

2.1 Multiplication first: $3 \times (-4) = -12$; $-8 + (-12) = -20$.

2.2 $60 = 2^2 \times 3 \times 5$.

2.3 $36 = 2^2 \times 3^2$, $48 = 2^4 \times 3 \rightarrow \text{HCF} = 2^2 \times 3 = 12$.

3.1 $3\frac{1}{2} = 7/2 = 14/4$; $1\frac{3}{4} = 7/4$; $14/4 - 7/4 = 7/4$; $= 1\frac{3}{4}$.

3.2 LCM of 12 and 18: $12 = 2^2 \times 3$, $18 = 2 \times 3^2 \rightarrow \text{LCM} = 2^2 \times 3^2 = 36$; next together 36 s after noon; 12:00:36.

3.3 $-7 - 9 = -16$; $-16 + 4 = -12$ °C.