

502 Maths DS n°3 Nov. 2023 20 min NOM =

E01 [11 pts] Calculer :

$$A = -3 - 8$$

$$B = 12 - 21 =$$

$$C = 7 - 5 =$$

$$D = -4 + 13 =$$

$$E = -32 + 10 =$$

$$F = -(-3) + (-5)$$

$$G = +(-2) - (-1)$$

$$H = (+4) \times (-7)$$

$$I = (-3) \times (-8)$$

$$J = 4 \times (-6) =$$

$$K = -3 + 5 - 7 + 12 - 10 =$$

E02 [3 pts] Calculer :

$$L = (-2) \times (-7)$$

$$M = (-4) \times 6$$

$$N = 12 \times (-4)$$

E03 [6 pts] Calculer :

$$P = \frac{-175}{-50} =$$

$$Q = \frac{-24}{32} =$$

$$R = \frac{45}{270} =$$

$$S = \frac{1}{7} - \frac{8}{21} =$$

$$T = -\frac{8}{3} + \frac{2}{5} =$$

$$U = -\frac{7}{15} - \frac{1}{20} =$$

Corrigé

E01 Calculer :

$$A = -3 - 8 = -\boxed{3} - \boxed{8} = \mathbf{-11}$$

$$B = 12 - 21 = +\boxed{12} - \boxed{21} = \mathbf{-9}$$

$$C = 7 - 5 = +\boxed{7} - \boxed{5} = +2 = \mathbf{2}$$

$$D = -4 + 13 = -\boxed{4} + \boxed{13} = +9 = \mathbf{9}$$

$$E = -32 + 10 = -\boxed{32} + \boxed{10} = \mathbf{-22}$$

$$F = -(-3) + (-5) = +3 - 5 = +\boxed{3} - \boxed{5} = \mathbf{-2}$$

$$G = +(-2) - (-1) = -2 + 1 = -\boxed{2} + \boxed{1} = \mathbf{-1}$$

$$H = (+4) \times (-7) = -4 \times 7 = \mathbf{-28}$$

$$I = (-3) \times (-8) = +24 = \mathbf{24}$$

$$J = 4 \times (-6) = \mathbf{-24}$$

$$K = -3 + 5 - 7 + 12 - 10 = 5 + 12 - 3 - 7 - 10 = 17 - 20 \\ = +\boxed{17} - \boxed{20} = \mathbf{-3}$$

E02 Calculer :

$$L = (-2) \times (-7) = +2 \times 7 = +14 = \mathbf{14}$$

$$M = (-4) \times 6 = -4 \times 6 = \mathbf{-24}$$

$$N = 12 \times (-4) = -12 \times 4 = \mathbf{-48}$$

E03 Calculer :

$$P = \frac{-175}{-50} = +\frac{175}{50} = \frac{25 \times 7}{25 \times 2} = \mathbf{\frac{7}{2}}$$

$$Q = \frac{-24}{32} = -\frac{24}{32} = -\frac{8 \times 3}{8 \times 4} = \mathbf{-\frac{3}{4}}$$

$$R = \frac{45}{270} = \frac{45 \times 1}{45 \times 6} = \mathbf{\frac{1}{6}}$$

$$S = \frac{1}{7} - \frac{8}{21} = \frac{1 \times 3}{7 \times 3} - \frac{8}{21} = \frac{3}{21} - \frac{8}{21} = \frac{3-8}{21} = \frac{-5}{21} = \mathbf{-\frac{5}{21}}$$

$$T = -\frac{8}{3} + \frac{2}{5} = \frac{-8}{3} + \frac{2}{5} = \frac{(-8) \times 5}{3 \times 5} + \frac{2 \times 3}{5 \times 3} = \frac{-40}{15} + \frac{6}{15} = \frac{-40+6}{15} \\ = \frac{-34}{15} = \mathbf{-\frac{34}{15}}$$

$$U = -\frac{7}{15} - \frac{1}{20} = \frac{-7}{15} - \frac{1}{20} = \frac{(-7) \times 4}{15 \times 4} - \frac{1 \times 3}{20 \times 3} = \frac{-28}{60} - \frac{3}{60} \\ = \frac{-28-3}{60} = \frac{-31}{60} = \mathbf{-\frac{31}{60}}$$