

### Exercice 1

(5points)

1. **Calculer :** (3pts = 1,5 + 1,5)

$$A = 100 - 13 + 11 - 20 + 10$$

$$A = 87 + 11 - 20 + 10$$

$$A = 98 - 20 + 10$$

$$A = 78 + 10$$

$$A = \boxed{88}$$

$$B = 3,5 \times 6 + 20 \div 5 - 0,1$$

$$B = 21 + 4 - 0,1$$

$$B = 25 - 0,1$$

$$B = \boxed{24,9}$$

2. **Calculer et simplifier :** (1,5pts)

$$C = 76 - [10 \times 6,2 - (50 \div 5 - 4)]$$

$$C = 76 - [62 - (10 - 4)]$$

$$C = 76 - [62 - 6]$$

$$C = 76 - 56$$

$$C = \boxed{20}$$

3. **Factoriser puis calculer :** (0,5pt)

$$E = 2019,2020 \times 1002 - 2019,2020 \times 2$$

$$E = 2019,2020 \times (1002 - 2)$$

$$E = 2019,2020 \times 1000$$

$$E = \boxed{2019202}$$

### Exercice 2

(5points)

1. **Compléter avec les signes:** (3pts)

$$< ; > ; =$$

$$1 < \frac{17}{7} ; \frac{30}{5} = 6 ; 1 > \frac{3}{11}$$

$$\frac{2}{14} < \frac{8}{7} ; \frac{9,089}{13} < \frac{9,09}{13} ; \frac{2018}{22} > \frac{2018}{33}$$

2. **Compléter:**

(2pts)

$$\frac{3}{2,1} = \frac{30}{21} = \frac{10}{7} = \frac{50}{35} = \frac{5}{3,5}$$

### Exercice 3 Calculer

(10points)

$$A = \frac{11}{12} + \frac{7}{12} = \frac{11+7}{12} = \frac{18}{12} = \boxed{\frac{3}{2}}$$

$$B = \frac{17}{7} - \frac{3}{7} = \frac{17-3}{7} = \frac{14}{7} = \boxed{2}$$

$$C = \frac{2}{0,6} + \frac{7}{6} = \frac{20}{6} + \frac{7}{6} = \frac{20+7}{6} = \frac{27}{6} = \boxed{\frac{9}{2}}$$

$$D = \frac{0,8}{2} - \frac{3}{20} = \frac{8}{20} - \frac{3}{20} = \frac{8-3}{20} = \frac{5}{20} = \boxed{\frac{1}{4}}$$

$$E = \frac{5}{6} + \frac{3}{2} = \frac{5}{6} + \frac{9}{6} = \frac{5+9}{6} = \frac{14}{6} = \boxed{\frac{7}{3}}$$

$$F = \frac{7}{5} - \frac{1}{15} = \frac{21}{15} - \frac{1}{15} = \frac{21-1}{15} = \frac{20}{15} = \boxed{\frac{4}{3}}$$

$$G = \frac{8}{9} \times \frac{3}{2} = \frac{8 \times 3}{9 \times 2} = \frac{24}{18} = \boxed{\frac{4}{3}}$$

$$H = \frac{15}{8} \div \frac{5}{14} = \frac{15}{8} \times \frac{14}{5} = \frac{15 \times 14}{8 \times 5} = \frac{210}{40} = \boxed{\frac{21}{4}}$$

$$I = \frac{\frac{3}{11}}{\frac{22}{15}} = \frac{3}{11} \times \frac{15}{22} = \frac{3 \times 15}{11 \times 22} = \boxed{\frac{45}{242}}$$

$$J = 1 - \frac{1}{3} \times \frac{5}{2} = 1 - \frac{1 \times 5}{3 \times 2} = 1 - \frac{5}{6} = \frac{6}{6} - \frac{5}{6} = \frac{6-5}{6} = \boxed{\frac{1}{6}}$$