

**Exercice 1:** Effectue les calculs en faisant figurer toutes les étapes du calcul :

$$A = 6 \times (9 - 2)$$

$$B = 6 \times 9 - 2$$

$$C = 25 - 12 \div 3 + 4$$

$$D = 42 - (3 + 4 \times 8)$$

$$E = 2 + (3,5 + 0,5) \times (4,2 - 1,2)$$

$$F = 12 - 3 \times 2 + 8 \div 2$$

$$G = [(12 - 8) + 16] \times (6 + 4)$$

$$H = 4 \times (7,2 + 2,3) - [33 - (12 - 9)] \div 2 + 14$$

**Exercice 2:** Calculer les expressions suivantes :

$$A = 9 + (-16) + (-8) + 22.$$

$$B = -48 + 24 + 36 + (-12).$$

$$C = -7,5 + 12,3 + (-2,5) + (-5) + 12,7.$$

$$D = -35 - (-8) + 14 - 26.$$

$$E = 54 - 17 - (-11,5) - 6 + 4.$$

$$F = -18 + (-17) - (-16) + 15 - (-14).$$

**Exercice 3:** Effectuer les calculs suivants :

$$(+2) + (-8)$$

$$(-3) + (+7,5) + (+3)$$

$$(-17) + (-2) + (+4) + (-1)$$

$$(-3,5) - (-14)$$

$$(+7) - (-2) + (+4)$$

$$(+5) + (-4,5) - (+7,5)$$

**Exercice 4:** Sans effectuer les produits, indiquer les produits égaux.

$$A = 6 \times 3 \times 7 \times 5$$

$$B = -6 \times (-3) \times (-7) \times (-5)$$

$$C = -6 \times 3 \times (-7) \times 5$$

$$D = -6 \times (-3) \times 7 \times (-5)$$

$$E = 6 \times (-3) \times (-7) \times (-5)$$

**Exercice 5:** Quel est le signe de chacun de ces produits ? Le calcul n'est pas demandé.

$$A = 6 \times (-3) \times 7 \times (-5) \times (-8)$$

$$B = -6 \times (-3) \times (-7) \times (-8) \times (-5)$$

$$C = -6 \times (-8) \times 3 \times (-7) \times 5$$

$$D = -6 \times (-3) \times (-8) \times 7 \times (-5)$$

$$E = 6 \times (-3) \times (-7) \times (-7) \times (-5)$$

**Exercice 6:** Calculer les expressions suivantes :

$$A = (-4) \times [5 - (+7)]$$

$$B = 7 - [6 \times (-3) + (-3)]$$

$$C = -5 \times [(7 + (-4)) \times (-5 - (-2))]$$

$$D = (-5) + [(-4) \times (-2) + (+7)]$$

$$E = (-4) \times (-2) \times (-3) - (-3) \times (-2)$$

$$F = (+6) - (-9) + (-3) \times [(-5) \times (-2) - 3]$$

**Exercice 7:** Recopier puis compléter, en utilisant la règle indiquée à droite :

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| <div style="display: flex; align-items: center; justify-content: center;"><div style="text-align: center;"><div style="border: 1px solid black; width: 40px; height: 20px; margin: 0 auto 10px auto;"></div><div style="display: flex; justify-content: space-around; width: 100px;"><div style="border: 1px solid black; width: 40px; height: 20px;"></div><div style="border: 1px solid black; width: 40px; height: 20px;"></div></div><div style="display: flex; justify-content: space-around; width: 120px;"><div style="border: 1px solid black; width: 40px; height: 20px;"></div><div style="border: 1px solid black; width: 40px; height: 20px;"></div><div style="border: 1px solid black; width: 40px; height: 20px;"></div></div><div style="display: flex; justify-content: space-around; width: 140px;"><div style="border: 1px solid black; width: 40px; height: 20px; text-align: center;">-3,5</div><div style="border: 1px solid black; width: 40px; height: 20px; text-align: center;">2,5</div><div style="border: 1px solid black; width: 40px; height: 20px; text-align: center;">-7</div><div style="border: 1px solid black; width: 40px; height: 20px; text-align: center;">-2</div></div></div><div style="margin-left: 20px; text-align: center;"><div style="border: 1px solid black; width: 40px; height: 20px; text-align: center;"><math>a+b</math></div><div style="display: flex; justify-content: space-around; width: 60px;"><div style="border: 1px solid black; width: 30px; height: 20px; text-align: center;"><math>a</math></div><div style="border: 1px solid black; width: 30px; height: 20px; text-align: center;"><math>b</math></div></div></div></div> | <div style="display: flex; align-items: center; justify-content: center;"><div style="text-align: center;"><div style="border: 1px solid black; width: 40px; height: 20px; text-align: center;">-10</div><div style="display: flex; justify-content: space-around; width: 100px;"><div style="border: 1px solid black; width: 40px; height: 20px;"></div><div style="border: 1px solid black; width: 40px; height: 20px; text-align: center;">3</div></div><div style="display: flex; justify-content: space-around; width: 120px;"><div style="border: 1px solid black; width: 40px; height: 20px;"></div><div style="border: 1px solid black; width: 40px; height: 20px;"></div><div style="border: 1px solid black; width: 40px; height: 20px;"></div></div><div style="display: flex; justify-content: space-around; width: 140px;"><div style="border: 1px solid black; width: 40px; height: 20px; text-align: center;">-7</div><div style="border: 1px solid black; width: 40px; height: 20px; text-align: center;">2</div><div style="border: 1px solid black; width: 40px; height: 20px;"></div><div style="border: 1px solid black; width: 40px; height: 20px;"></div></div></div><div style="margin-left: 20px; text-align: center;"><div style="border: 1px solid black; width: 40px; height: 20px; text-align: center;"><math>a-b</math></div><div style="display: flex; justify-content: space-around; width: 60px;"><div style="border: 1px solid black; width: 30px; height: 20px; text-align: center;"><math>a</math></div><div style="border: 1px solid black; width: 30px; height: 20px; text-align: center;"><math>b</math></div></div></div></div> |
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**Exercice 8:** Calculer pour les deux nombres suivants :  $\frac{5}{3}$  et  $(-7)$

- 1- La somme de leurs opposés.
- 2- La somme de leurs inverses.
- 3- L'opposé de leur somme.
- 4- L'inverse de leur somme.
- 5- L'inverse de leur produit.
- 6- Le produit de leurs inverses.