

Collège Léonard de Vinci

Date :

Nom :

Prénom :

Classe :

Interrogation 1- plan de travail 1- thème 1- objectifs 10 et 11

Informations générales :

Attention à la présentation et à la rédaction.

La calculatrice est interdite. Vous avez droit aux tables de multiplication.

Mon comportement pendant l'évaluation	
Présentation de la copie	
Exercice 1	
Exercice 2	
Exercice 3	

Exercice 1 : Calculer les produits suivants

a. $(-3) \times (-7)$

b. $(+2) \times (+8)$

c. $(-1) \times (+5)$

d. $(+9) \times (-4)$

e. $(-8) \times (-7)$

f. $(-6) \times (+2)$

Exercice 2: Calculer les produits suivants. Attention aux signes.

a. $(-1) \times (-2) \times (-2) \times (+1) \times (-3)$

b. $(-4) \times (-1) \times (-1) \times (+2) \times (-3) \times (-1)$

c. $(+5) \times (-2) \times (+2) \times (+5) \times (-1)$

d. $(-8) \times (+2) \times (+1) \times (+1) \times (-2) \times (-2) \times (-2)$

Exercice 3: Calculer en détaillant les étapes. Attention à la présentation.

a. $3 \times 5 - (5 - 12)$

b. $5 - (3 - 5 \times 6)$

c. $4 \times (2 - 3 \times 9) + 7$

d. $9 \times (-2 - 4 \times 5) - 3$

e. $-63 : (2 - 3 \times 7 + 5 \times 2) - 11$

f. $48 : (2 - 12 : 4 - 7) - 4$

Les tables de multiplication

Table de 1	Table de 2	Table de 3	Table de 4	Table de 5
$1 \times 1 = 1$	$2 \times 1 = 2$	$3 \times 1 = 3$	$4 \times 1 = 4$	$5 \times 1 = 5$
$1 \times 2 = 2$	$2 \times 2 = 4$	$3 \times 2 = 6$	$4 \times 2 = 8$	$5 \times 2 = 10$
$1 \times 3 = 3$	$2 \times 3 = 6$	$3 \times 3 = 9$	$4 \times 3 = 12$	$5 \times 3 = 15$
$1 \times 4 = 4$	$2 \times 4 = 8$	$3 \times 4 = 12$	$4 \times 4 = 16$	$5 \times 4 = 20$
$1 \times 5 = 5$	$2 \times 5 = 10$	$3 \times 5 = 15$	$4 \times 5 = 20$	$5 \times 5 = 25$
$1 \times 6 = 6$	$2 \times 6 = 12$	$3 \times 6 = 18$	$4 \times 6 = 24$	$5 \times 6 = 30$
$1 \times 7 = 7$	$2 \times 7 = 14$	$3 \times 7 = 21$	$4 \times 7 = 28$	$5 \times 7 = 35$
$1 \times 8 = 8$	$2 \times 8 = 16$	$3 \times 8 = 24$	$4 \times 8 = 32$	$5 \times 8 = 40$
$1 \times 9 = 9$	$2 \times 9 = 18$	$3 \times 9 = 27$	$4 \times 9 = 36$	$5 \times 9 = 45$
$1 \times 10 = 10$	$2 \times 10 = 20$	$3 \times 10 = 30$	$4 \times 10 = 40$	$5 \times 10 = 50$

Table de 6	Table de 7	Table de 8	Table de 9	Table de 10
$6 \times 1 = 6$	$7 \times 1 = 7$	$8 \times 1 = 8$	$9 \times 1 = 9$	$10 \times 1 = 10$
$6 \times 2 = 12$	$7 \times 2 = 14$	$8 \times 2 = 16$	$9 \times 2 = 18$	$10 \times 2 = 20$
$6 \times 3 = 18$	$7 \times 3 = 21$	$8 \times 3 = 24$	$9 \times 3 = 27$	$10 \times 3 = 30$
$6 \times 4 = 24$	$7 \times 4 = 28$	$8 \times 4 = 32$	$9 \times 4 = 36$	$10 \times 4 = 40$
$6 \times 5 = 30$	$7 \times 5 = 35$	$8 \times 5 = 40$	$9 \times 5 = 45$	$10 \times 5 = 50$
$6 \times 6 = 36$	$7 \times 6 = 42$	$8 \times 6 = 48$	$9 \times 6 = 54$	$10 \times 6 = 60$
$6 \times 7 = 42$	$7 \times 7 = 49$	$8 \times 7 = 56$	$9 \times 7 = 63$	$10 \times 7 = 70$
$6 \times 8 = 48$	$7 \times 8 = 56$	$8 \times 8 = 64$	$9 \times 8 = 72$	$10 \times 8 = 80$
$6 \times 9 = 54$	$7 \times 9 = 63$	$8 \times 9 = 72$	$9 \times 9 = 81$	$10 \times 9 = 90$
$6 \times 10 = 60$	$7 \times 10 = 70$	$8 \times 10 = 80$	$9 \times 10 = 90$	$10 \times 10 = 100$



Exercice 1

3

- a) $(-3) \times (-7) = 21$
 b) $(+2) \times (+8) = 16$
 c) $(-1) \times (+5) = (-5)$
 d) $(+9) \times (-4) = (-36)$
 e) $(-8) \times (-7) = 56$
 f) $(-6) \times (+2) = (-12)$

Exercice 2

4

- a) $(-1) \times (-2) \times (-2) \times (+1) \times (-3) = -12$
 b) $(-4) \times (-1) \times (-1) \times (+2) \times (-3) \times (-1) = (-24)$
 c) $(+5) \times (-2) \times (+2) \times (+5) \times (-1) = -100$
 d) $(-8) \times (+2) \times (+1) \times (+1) \times (-2) \times (-2) \times (-2) = -128$

Exercice 3

$A = 3 \times 5 - (5 - 12)$
 $A = 15 - (-7)$
 $A = 15 + 7$
 $A = 22$

2

$B = 5 - (3 - 5 \times 6)$
 $B = 5 - (3 - 30)$
 $B = 5 - (-27)$
 $B = 5 + 27$
 $B = 32$

2

$$C = 4 \times (2 - 3 \times 9) + 7$$

$$C = 4 \times (2 - 27) + 7$$

$$C = 4 \times (-25) + 7$$

$$C = (-100) + 7$$

$$C = (-93) \quad \textcircled{2}$$

$$D = 9 \times (-2 - 4 \times 5) - 3$$

$$D = 9 \times (-2 - 20) - 3$$

$$D = 9 \times (-22) - 3$$

$$D = (-198) - 3$$

$$D = (-201) \quad \textcircled{2}$$

$$E = -63 : (2 - 3 \times 7 + 5 \times 2) - 11$$

$$E = -63 : (2 - 21 + 10) - 11$$

$$E = -63 : (-19 + 10) - 11$$

$$E = -63 : (-9) - 11$$

$$E = 7 - 11$$

$$E = -4 \quad \textcircled{25}$$

$$F = 48 : (2 - 12 : 4 - 7) - 4$$

$$F = 48 : (2 - 3 - 7) - 4$$

$$F = 48 : (-1 - 7) - 4$$

$$F = 48 : (-8) - 4$$

$$F = (-6) - 4$$

$$F = (-10)$$

$\textcircled{25}$