

حلول تمارين درس العمليات على الأعداد الطبيعية والأعداد العشرية -4-

(6) توزيع الضرب على الجمع والطرح:

حل التمرين 1:

a	b	c	$(a+b) \times c$	$a+b \times c$	$a \times (b+c)$
6	7	1	$(6+7) \times 1 = 13$	$6+7 \times 1 = 13$	$6 \times (7+1) = 48$
13	7	5	$(13+7) \times 5 = 100$	$13+7 \times 5 = 48$	$13 \times (7+5) = 156$
2	0	11	$(2+0) \times 11 = 22$	$2+0 \times 11 = 2$	$2 \times (0+11) = 22$
11	1	13	$(11+1) \times 13 = 156$	$11+1 \times 13 = 24$	$11 \times (1+13) = 154$
5	5	12	$(5+5) \times 12 = 120$	$5+5 \times 12 = 65$	$5 \times (5+12) = 85$
1	11	1	$(1+11) \times 1 = 12$	$1+11 \times 1 = 12$	$1 \times (11+1) = 12$

حل التمرين 2:

$25 \times (2+7) = 25 \times 2 + 25 \times 7$	$4 \times (8-3) = 4 \times 8 - 4 \times 3$
$7 \times (27+4) = 7 \times 27 + 7 \times 4$	$11 \times (5-2) = 11 \times 5 - 11 \times 2$

حل التمرين 3:

$15 \times (100+2) = 15 \times 100 + 15 \times 2 = 1500 + 30 = 1530$
$20 \times (10-1) = 20 \times 10 - 20 \times 1 = 200 - 20 = 180$
$4 \times (25-3) = 4 \times 25 - 4 \times 3 = 100 - 12 = 88$
$25 \times (8-2) = 25 \times 8 - 25 \times 2 = 200 - 50 = 150$

حل التمرين 4:

$7 \times (87-72) = 7 \times 87 - 7 \times 72 = 609 - 504 = 105$
$(95-77) \times 6 = 95 \times 6 - 77 \times 6 = 570 - 462 = 108$
$(57-49) \times 2 = 57 \times 2 - 49 \times 2 = 114 - 98 = 16$
$4 \times (11+18) = 4 \times 11 + 4 \times 18 = 44 + 72 = 116$

حل التمرين 5:

$62 \times (69+32) = 62 \times 69 + 62 \times 32$	$28 \times (94-77) = 28 \times 94 - 28 \times 77$
$(38+35) \times 60 = 38 \times 60 + 35 \times 60$	$10 \times (4-59) = 10 \times 4 - 10 \times 59$
$(45-22) \times 52 = 45 \times 52 - 22 \times 52$	$81 \times (66-37) = 81 \times 66 - 81 \times 37$

حل التمرين 6:

$5 \times (5,7 - 0,7) = 5 \times 5,7 - 5 \times 0,7$	$8 \times (8,1 - 1,9) = 8 \times 8,1 - 8 \times 1,9$
$(2,1 - 6,9) \times 4,2 = 2,1 \times 4,2 - 6,9 \times 4,2$	$7,4 \times (9 + 5,7) = 7,4 \times 9 + 7,4 \times 5,7$
$9,2 \times (7,1 - 7) = 9,2 \times 7,1 - 9,2 \times 7$	$7,7 \times (5,9 + 9) = 7,7 \times 5,9 + 7,7 \times 9$

(7) تحليل حساب:حل التمرين 1:

$5 \times 8 + 5 \times 7 = 5 \times (8 + 7)$	$14 \times 45 - 14 \times 15 = 14 \times (45 - 15)$
$24 \times 10 + 24 \times 4 = 24 \times (10 + 4)$	$12 \times 7 - 12 \times 2 = 12 \times (7 - 2)$

حل التمرين 2:

$14 \times 30 + 14 \times 5 = 14 \times (30 + 5) = 14 \times 35 = 490$
$22 \times 17 - 22 \times 3 = 22 \times (17 - 3) = 22 \times 14 = 308$
$37 \times 57 - 2 \times 57 = (37 - 2) \times 57 = 35 \times 57 = 1995$
$67 \times 2 + 3 \times 67 = 67 \times (2 + 3) = 67 \times 5 = 335$

حل التمرين 3:

$60 \times 20 + 78 \times 20 = (60 + 78) \times 20 = 138 \times 20 = 2760$
$96 \times 82 - 83 \times 82 = (96 - 83) \times 82 = 13 \times 82 = 1066$
$72 \times 40 + 72 \times 88 = 72 \times (40 + 88) = 72 \times 128 = 9216$
$77 \times 82 - 28 \times 77 = 77 \times (82 - 28) = 77 \times 54 = 4158$

حل التمرين 4:

$7 \times 13,1 + 7 \times 14,3 = 7 \times (13,1 + 14,3) = 7 \times 27,4 = 191,8$
$2,3 \times 5,7 + 2,3 \times 4,3 = 2,3 \times (5,7 + 4,3) = 2,3 \times 10 = 23$
$23 \times 5,4 + 23 \times 9,8 = 23 \times (5,4 + 9,8) = 23 \times 15,2 = 349,6$
$9,73 \times 15,3 - 9,73 \times 14,3 = 9,73 \times (15,3 - 14,3) = 9,73 \times 1 = 9,73$

حل التمرين 5:

$65 \times 87 + 65 \times 53 = 65 \times (87 + 53)$	$6,7 \times 7,3 - 6,7 \times 4,8$
$64 \times 67 + 32 \times 67 = 67 \times (64 + 32)$	$42 \times 76 - 35 \times 76 = 76 \times (42 - 35)$
$8,7 \times 87 + 8,7 \times 48 = 8,7 \times (87 + 48)$	
$21 \times 3,4 + 21 \times 5,4 - 0,8 \times 21 = 21 \times (3,4 + 5,4 - 0,8)$	