S. 13 W1 a) 31,3 b) 4,15

W2 a) ggt (36,72) = 36 b) ggt (40,60) = 20 c) ggt (9,21) = 3

W3

	G	W	P
a)	120	90	75 %
b)	25	5	20 %
c)	120	36	30 %

S. 49 W1 a) A: -5 b) B: -2 c) C: +1 d) D: +6

W2 -36 < -6 < -4 < -2 < 0 < +3 < +28 < + 36

W3 a) I.Quadrant b) III.Quadrant c) II.Quadrant

W4 a) (+16) b) (-6,3) c) (+9)

W5 a) (+24) b) (+8) c) (-35) d) (-3) e) (+4) f) (-5)

W6 (-28)

W7 a) < b) > c) =

W8 A' (4|-1) B' (-1|-5) C' (-4|-1)

W10 a) (-54) b) $\left(-\frac{5}{63}\right)$ c) $\left(-1\frac{2}{7}\right)$

W12 a) $\left(-2\frac{3}{16}\right)$ b) $\left(-\frac{4}{5}\right)$

S. 73 W1 a) 5^7 a) x^5

W2 a) 3 • 3 • 3 • 3 = 81 b) 2 • 2 • 2 = 8

c) (-1) • (-1) • (-1) • (-1) = 1 d) (-2) • (-2) • (-2) • (-2) • (-2) = (-32)

W3 a) 100 000 = 10^5 b) 1 000 000 000 = 10^9

W4 a) 5 • 10^3 b) 7 • 10^6 c) 800 d) 40 000 000 000

W6 a) $m^2 + 2mn + n^2$ b) $s^2 - 2st + t^2$ c) $a^2 - y^2$

W9 a) $(5a + 9b)^2 = 25a^2 + 90ab + 81b^2$ b) $(2x - 3y)^2 = 4x^2 - 12xy + 9y^2$

c) (m + n) • (m - n) = $m^2 - n^2$

W11 a) $(10x + 8y)^2$ b) $(4m - 2n)^2$ c) (3a - b) • (3a + 2b)

S. 97 W1 a) A = 108 mm² b) A = 7 650 cm² c) A = 57,75 cm²

W2 a) A = 361 dm² b) A = 23,04 m² c) A = 7,5625 cm²

W3 a) A = 630 mm² b) A = 53,35 m² c) A = 2508,8 dm²

W4 a) 14 dm b) 24cm c) 40 dm² d) 200 a

W5 a) 0,44 km b) 0,9 cm c) 1,57 a d) 0,14 cm²

W6 a) A = 94 m² b) 94 m² = 9 400 dm² = 940 000 cm² = 94 000 000 mm²

W7 a) A = 128 mm² b) A = 128 mm² = 1,28 cm² = 0,0128 dm² = 0,000128 m²

c) gleichschenkliges Trapez

S. 117 W1

a) $A = a \bullet h_a$ $A = 18\ cm^2$

b) $A = \frac{(a + c) \bullet h}{2}$ $A = 72\ cm^2$

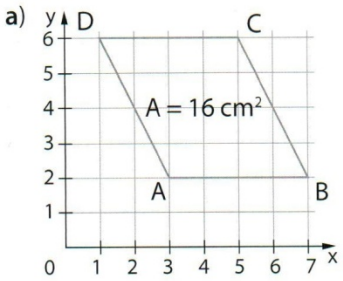
c) $A = \frac{e \bullet f}{2}$ $A = 204\ m^2$

d) $A = \frac{e \bullet f}{2}$ $A = 10{,}53\ m^2$

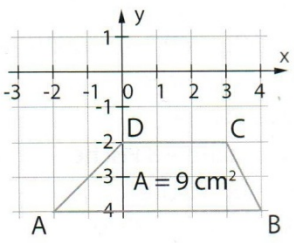
e) $A = \frac{c \bullet h_c}{2}$ $A = 184\ m^2$

W2

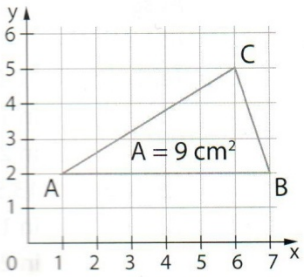
a)



b)



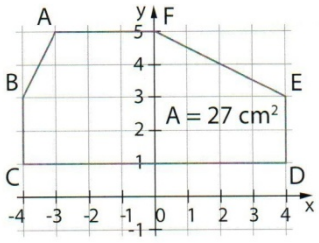
c)



W3 a) a = 3 m, b = 9 m b) h = 8 dm

c) e = 100 m d) a = 12,5 cm; h_b = 5 cm; A = 42,5 cm²

W4



S. 225 W1 a) Grundwert (G) b) Prozentsatz (p) c) Prozentwert (W)

W2 a) $W = \frac{G \bullet p}{100}$ b) $p = \frac{W \bullet 100}{G}$ b) $G = \frac{W \bullet 100}{p}$

W3 a) 66 € b) 80,20 €

W4 a) 50 % b) 30 %

W5 a) 200 m b) 4 400 kg

W7 a) 1 % ≙ 3,6° b) 25 % ≙ 90° c) 35 % ≙ 126° d) 40 % ≙ 144°

W8 a) 50 % b) 70 % c) 110 %

S. 245 W1 a) $W = \frac{G \bullet p}{100}$ b) $p = \frac{W \bullet 100}{G}$ b) $G = \frac{W \bullet 100}{p}$

W2 a) W = 600 kg b) p = 12,5 % c) G = 480 €

W3 a) 200 • 1,5 = 300 € b) 400 • 0,8 = 320 €