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$$1 \quad a + a + d + a + d + d = 18$$

$$3a + 3d = 18$$

$$a^2 + (a+d)^2 + (a+d+d)^2 = 206$$

$$a^2 + 6^2 + (6+d)^2 = 206$$

$$a^2 + 12d + d^2 = 134$$

$$a + d = 6$$

$$a = -1, d = 7$$

$$a = 13, d = -7$$

$$-1, 6, 13$$

$$2 \quad a + ar + ar^2 = 28$$

$$ar^3 = 512$$

$$ar = 8; a + ar^2 = 20$$

$$8r^2 - 20r + 8 = 0$$

$$r = 2, r = \frac{1}{2}$$

$$r = 2, a = 4$$

$$= 4, 8, 16$$