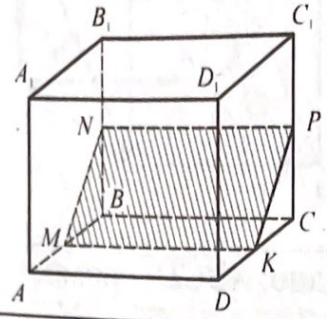
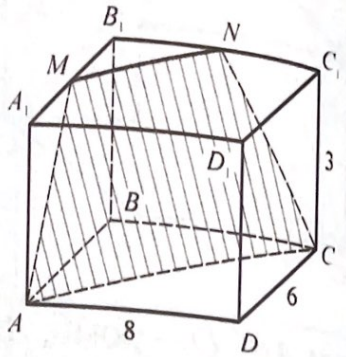
Тема: ПРЯМОУГОЛЬНЫЙ ПАРАЛЛЕЛЕПИПЕД

$ABCDA_1B_1C_1D_1$ – прямоугольный параллелепипед.

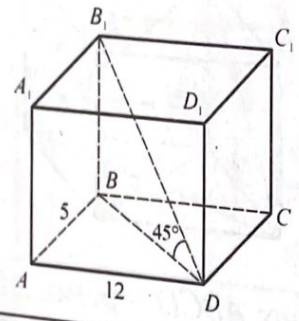
1. Дано: $AD = 4$, $DC = 8$, $CC_1 = 6$, $AM = MB$, $BN = NB_1$, $CP = PC_1$, $DK = KC$.
Найдите $S_{сеч}$.



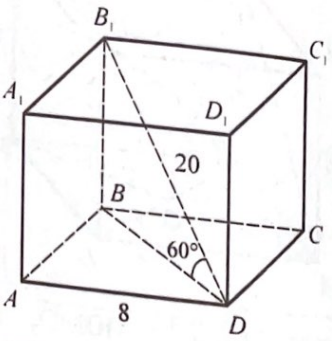
2. Дано: $AD = 8$, $DC = 6$, $CC_1 = 3$, $A_1M = MB_1$, $B_1N = NC_1$.
Найдите $P_{сеч}$.



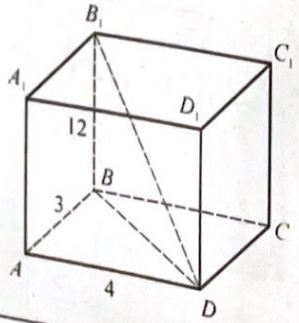
3. Дано: $AB = 5$, $AD = 12$, $\angle BDB_1 = 45°$.
Найдите BB_1.



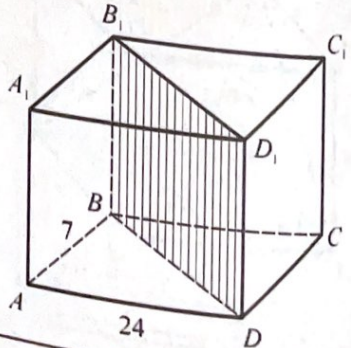
4. Дано: $AD = 8$, $DB_1 = 20$, $\angle BDB_1 = 60°$.
Найдите $S_{осн}$.



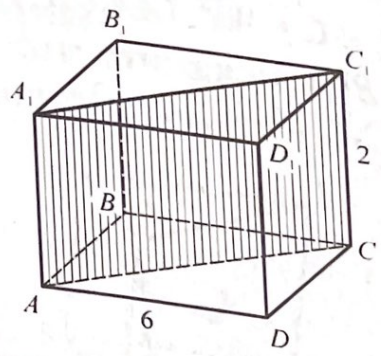
5. Дано: $AB = 3$, $AD = 4$, $BB_1 = 12$.
Найдите AC_1.



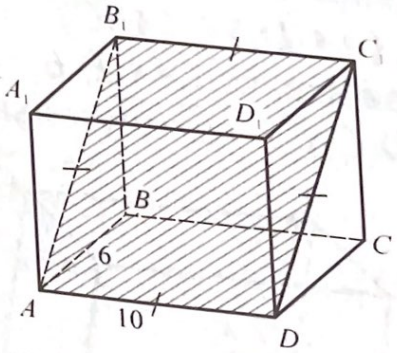
6. Дано: $AB = 7$, $AD = 24$, $S_{BB_1D_1D} = 50$.
Найдите BB_1.



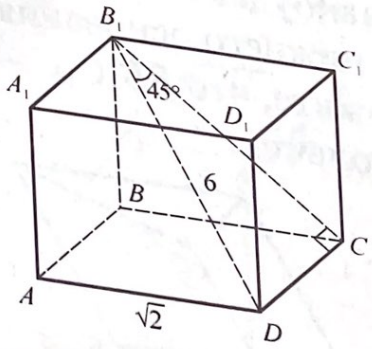
7. Дано: $AD = 6$, $CC_1 = 2$, $S_{AA_1C_1C} = 20$.
Найдите $S_{\text{бок}}$.



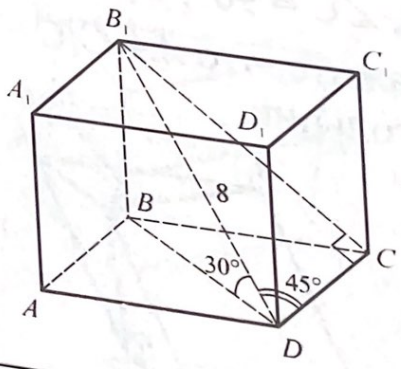
8. Дано: AB_1C_1D – квадрат, $AD = 10$, $AB = 6$.
Найдите $S_{\text{бок}}$.



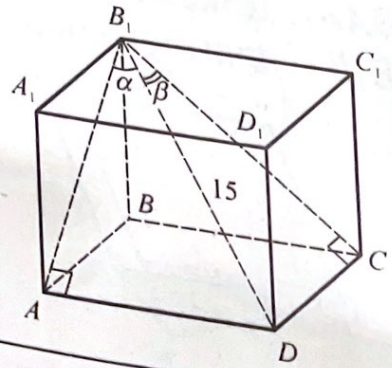
9. Дано: $DB_1 = 6$, $AD = \sqrt{2}$, $DB_1C = 45°$.
Найдите AA_1.



10. Дано: $DB_1 = 8$, $\angle BDB_1 = 30°$, $\angle CDB_1 = 45°$.
Найдите AD.



11. Дано: $DB_1 = 15$, $\sin\alpha = \frac{1}{3}$, $\sin\beta = \frac{2}{5}$. Найдите $S_{\text{осн}}$.



12. Дано: $DB_1 = 5$, $\cos\alpha = 0{,}5$, $\sin\beta = 0{,}3$.
Найдите AD.