Вариант 112204

1. $(1,7+2,8)\cdot 24 = 4,5\cdot 24 = 108$

2. $\frac{4^3}{4^2\cdot 4^{-1}} = \frac{4^3}{4} = 4^2 = 16$

3. $3000 + (3000\cdot 0,15) = 3000 + 450 = 3450$

4. $S = \frac{a+b}{2}h \qquad S = \frac{5+3}{2}\cdot 6 = 4\cdot 6 = 24$

5. $\cos\alpha$ - ? (>0, т.к. $0°<\alpha<90°$)

$\sin\alpha = \frac{\sqrt{19}}{10}$

$\cos\alpha = \sqrt{1-\left(\frac{\sqrt{19}}{10}\right)^2} = \sqrt{0,81} = 0,9$

6. $800\cdot 7 = 5600$

$5600 : 500 > 11$ Ответ: 12

7. $x^2 - 7x - 18 = 0$

$D = (-7)^2 + 18\cdot 4 = 121$

$x_1 = \frac{7-11}{2} = -2 \qquad x_2 = \frac{7+11}{2} = 9$

Ответ: 9

8. $3\cdot 4 - 1\cdot 1 = 11$

9. 2341

10. 0,1

11 16

12 135

13 $6\cdot 3 = 18$

14. 2314

15. $AM = AC : 2 = 25$

$BM = \sqrt{65^2-25^2} = \sqrt{(65-25)(65+25)} = \sqrt{40\cdot 90} = \sqrt{3600} = 60$

16. $5\cdot 5\cdot 1 - 1\cdot 1\cdot 1 = 25 - 1 = 24$

17 4123

18 14

19 $453 > 400$ $\frac{5+3}{2} = 4$

$$\begin{array}{r|l} 453 & 6 \\ 42 & 75 \\ \hline 33 & \\ 30 & \\ \hline 3 \text{ (ост.)} & \end{array} \qquad \begin{array}{r|l} 453 & 5 \\ 45 & 90 \\ \hline 3 \text{ (ост.)} & \end{array}$$

20

	c	d
a	24	28
b	?	16

$(a+c)\cdot 2 = 24$ $\quad a+c = 12 \rightarrow c = 12-a$

$(a+d)\cdot 2 = 28$ $\quad a+d = 14$

$(b+d)\cdot 2 = 16$ $\quad b+d = 8 \rightarrow b = 8-d$ $\Big\}\rightarrow$

$(b+c)\cdot 2 = ?$

$b+c = 8-d+12-a = 20-(a+d) = 20-14 = 6$

$P = (b+c)\cdot 2 = 6\cdot 2 = 12$

Ответ: 12