

Find the solution.

1. $-18(21 + 10) + (-24)^2 =$

$-18(31) + 576$

$-558 + 576$

18

$$\begin{array}{r} 24 \\ \times 24 \\ \hline 96 \\ 48 \\ \hline 576 \end{array}$$

2. $-9(11 + 24) + 25^3 =$

$-9 \times 35 + (625 \times 25)$

$-315 + 15625$

15310

$$\begin{array}{r} 625 \\ \times 25 \\ \hline 3125 \\ 1250 \\ \hline 15625 \\ - 315 \\ \hline 15310 \end{array}$$

3. $8(17 - 14) + 3^2 =$

$8(3) + 9$

$24 + 9$

33

4. $[(3 + -19)5 - -2(-17 - -15)] \div 8 =$

$[-16 \times 5 - (-2)(-17 + 15)] \div 8$

$[-80 - (-2)(-2)] \div 8$

$[-80 - (4)] \div 8$

$-84 \div 8$

-10.5

5. $[(5 + -14) - 22 - -3(5 - 21)] \div 20 =$

$[(-9) - 22 - (-3)(-16)] \div 20$

$[-31 - 48] \div 20$

$-79 \div 20$

-3.95

$$\begin{array}{r} -3.95 \\ 217.90 \\ 6 \\ 19 \\ 18 \\ 10 \end{array}$$

6. $-6(-1 + 1) + (-8)^3 =$

$-6(-1 + 1) + 64 \times 8$

512

$$\begin{array}{r} -8 \times -8 \times -8 \\ 64 \\ \times 8 \\ \hline 512 \\ -512 \\ \hline \end{array}$$

7. $[(13 + 11) - 19 - (-11)(-12 - 11)] \div -20 =$

$[24 - 19 - (-11)(-23)] \div (-20)$

$[5 - 253] \div -20$

$-248 \div -20$

12.4

8. $17(23 + 22) + 1^3 =$

$17 \times 45 + 1$

766

$$\begin{array}{r} 345 \\ \times 17 \\ \hline 2415 \\ 45 \\ \hline 765 \end{array}$$

9. $7(16 + 15) + 2^3 =$

$7 \times 31 + 8$

$217 + 8$

225

10. $12(-1 + 16) + (-6)^3 =$

$12(15) + 216$

$180 + 216$

~~396~~
 -36

$$\begin{array}{r} 2 \\ \sqrt{216} \\ 6 \\ \hline 216 \end{array}$$

Find the solution.

11. $-6(3-3) + (-20)^2 =$

$+400$

$\boxed{400}$

12. $-10(-9+2) + (-15)^2 =$

$-10(-7) + 225$

$70 + 225$

$\boxed{295}$

13. $-16(-4+5) + 9^2 =$

$-16(1) + 81$

$\boxed{65}$

$\begin{array}{r} ? \\ 81 \\ -16 \\ \hline 65 \end{array}$

14. $[(18+6)-16--17(-4-1)] + 1 =$

$[12-16--(-17)(-5)]$

$-4-85$

$\boxed{-89}$

15. $-16(8+2) + (-2)^2 =$

$-16(10) + 4$

$-160 + 4$

$\boxed{-156}$

16. $-9(10+18) + 16^2 =$

$-9(28) + 256$

$-252 + 256$

$\boxed{4}$

17. $-10(-11+15) + 10^2 =$

$-10(4) + 100$

$-40 + 100$

$\boxed{60}$

18. $[(14+6)-10--11(-4+3)] + 1 =$

$[8-10--(-11)(-1)]$

$[-2-11]$

$\boxed{-13}$

19. $[(3+18)7--12(9+3)] \div 8 =$

$[21 \times 7 - (-12)(12)] \div 8$

$[147 + 144] \div 8$

$291 \div 8$

$\boxed{36 \frac{3}{8} \text{ or } 36.375}$

$\begin{array}{r} 36 \\ 8 \overline{)291} \\ \underline{24} \\ 51 \\ \underline{48} \\ 3 \end{array}$

20. $-7(-6-19) + 6^2 =$

$-7(-25) + 36$

$175 + 36$

$\boxed{211}$