

Evaluate each expression, showing your steps/work. No Calculator.

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$$2^4 = 16$$

$$1. \frac{6+4}{2^4+4 \div 2} = \frac{10}{18} = \frac{5}{9}$$

$$2. \frac{2^3 \cdot 5}{3^2 - 3 \cdot 2}$$

$$3. 4(9 - 3) + \frac{10}{4 \div 2}$$

$$16 + 4 \div 2$$

$$16 + 2$$

$$4. 6 \div 3 \cdot 8$$

$$5. 5^2 - 14 \div 7$$

$$6. 10 \div 5 + 3 \cdot 2$$

$$7. 4 - 20 \div 10 + 7$$

$$8. |3 - 9| + 10 \div 2 - 4$$

$$9. \frac{3}{4} \cdot 2^2 + 1$$

$$\frac{3}{4} \cdot 4 + 1$$

$$\frac{3}{4} \cdot \frac{4}{1} + 1$$

$$3 + 1$$

$$10. \frac{2}{3} \cdot 3^2 \div 3$$

$$11. -6(3-2)^2 + 1 - |2+9|$$

$$-6(1)^2 + 1 - |11|$$

$$-6 + 1 - 11$$

$$-16$$

$$12. [(7 - 5)^5 \div 8] - 4$$

$$[(2)^5 \div 8] - 4$$

$$[32 \div 8] - 4$$

$$4 - 4$$

$$0$$

$$13. 2[(9 - 8)^2 + (12 - 5)^2]$$

$$14. 12\left(2 + \frac{1}{2}\right) - 18$$

$$15. 3[2(13 - 9) + 8] + 2$$

$$16. (-3)^3 + 16 - (4 \cdot 3) \div 6$$

$$17. \frac{4 + 24}{7} + 5^2 - 27 \div 9$$