

$$1 = \frac{4+4}{4+4}$$

$$2 = \frac{4}{4} + \frac{4}{4}$$

$$3 = \frac{4+4+4}{4}$$

$$4 = 4 + \frac{4-4}{4}$$

$$5 = \sqrt{4 \cdot 4} + \frac{4}{4}$$

$$6 = 4 + \sqrt{4} + (4-4)$$

$$7 = 4\sqrt{4} - \frac{4}{4}$$

$$8 = 4\sqrt{4} + (4-4)$$

$$9 = 4\sqrt{4} + \frac{4}{4}$$

$$10 = 4 \cdot 4 - 4 - \sqrt{4}$$

$$11 = \frac{44}{\sqrt{4 \cdot 4}}$$

$$12 = 4 \cdot 4 - \sqrt{4 \cdot 4}$$

$$13 = \frac{44}{4} + \sqrt{4}$$

$$14 = 4 \cdot 4 - 4 + \sqrt{4}$$

$$15 = 4 \cdot 4 - \frac{4}{4}$$

$$16 = 4 \cdot 4 + (4-4)$$

$$17 = 4 \cdot 4 + \frac{4}{4}$$

$$18 = 4 \cdot 4 + 4 - \sqrt{4}$$

$$19 = 4! - 4 - \frac{4}{4}$$

$$20 = 4 \cdot 4 + \sqrt{4 \cdot 4}$$

$$21 = 4! - 4 + \frac{4}{4}$$

$$22 = 4 \cdot 4 + 4 + \sqrt{4}$$

$$23 = 4! - \frac{\sqrt{4 \cdot 4}}{4}$$

$$24 = 4! - \sqrt{4 \cdot 4} + 4$$

$$25 = 4! + \frac{\sqrt{4 \cdot 4}}{4}$$

$$26 = 4! + \sqrt{4} + (4-4)$$

$$27 = 4! + 4 - \frac{4}{4}$$

$$28 = 4! + 4 + (4-4)$$

$$29 = 4! + 4 + \frac{4}{4}$$

$$30 = 4 \cdot 4 \cdot \sqrt{4} - \sqrt{4}$$

$$31 =$$

$$32 = 4 \cdot 4 \cdot \sqrt{\sqrt{4 \cdot 4}}$$

$$= 4! + 4 + \sqrt{4 \cdot 4}$$

$$33 =$$

$$34 = 4 \cdot 4 \cdot \sqrt{4} + \sqrt{4}$$

$$35 =$$

$$36 = 4! + 4 + 4 + 4$$

$$37 =$$

$$38 = 44 - 4 - \sqrt{4}$$

$$39 =$$

$$40 = 44 - \sqrt{4 \cdot 4}$$

$$41 =$$

$$42 = 44 - 4 + \sqrt{4}$$

$$43 = 44 - \frac{4}{4}$$

$$44 = 44 + (4-4)$$

$$45 = 44 + \frac{4}{4}$$

$$46 = 44 + \sqrt{\sqrt{4 \cdot 4}}$$

$$47 =$$

$$48 = 44 + \sqrt{4 \cdot 4}$$

$$= 4(4 \cdot 4 - 4)$$

$$49 =$$

$$50 = 44 + 4 + \sqrt{4}$$

$$51 =$$

$$52 = 44 + 4 + 4$$

$$53 =$$

$$54 =$$

$$55 =$$

$$56 =$$

$$57 =$$

$$58 =$$

$$59 =$$

$$60 = 4 \cdot 4 \cdot 4 - 4$$