

Doubling and Halving

CATEGORY 1

Doubling and Halving with basic facts.

$$1 \times 16$$

$$2 \times 8$$

$$4 \times 4$$

$$8 \times 2$$

$$16 \times 1$$

$$1 \times 36$$

$$2 \times 18$$

$$4 \times 9$$

$$1 \times 20$$

$$2 \times 10$$

$$4 \times 5$$

$$1 \times 24$$

$$2 \times 12$$

$$4 \times 6$$

$$8 \times 3$$

$$1 \times 48$$

$$2 \times 24$$

$$4 \times 12$$

$$8 \times 6$$

$$16 \times 3$$

$$1 \times 40$$

$$2 \times 20$$

$$4 \times 10$$

$$8 \times 5$$

$$1 \times 12$$

$$2 \times 6$$

$$4 \times 3$$

$$1 \times 32$$

$$2 \times 16$$

$$4 \times 8$$

$$8 \times 4$$

$$16 \times 2$$

$$32 \times 1$$

$$1 \times 56$$

$$2 \times 28$$

$$4 \times 14$$

$$8 \times 7$$

CATEGORY 2

Doubling and Halving with 1 x 2-digit and 1 x 3-digit numbers.

8 x 16

4 x 32

2 x 64

8×32

4×64

2×168

$$36 \times 5$$

$$18 \times 10$$

$$9 \times 20$$

$$8 \times 125$$

$$4 \times 250$$

$$2 \times 500$$

$$84 \times 5$$

$$42 \times 10$$

$$21 \times 20$$

$$35 \times 8$$

$$70 \times 4$$

$$140 \times 2$$

$$125 \times 8$$

$$250 \times 4$$

$$500 \times 2$$

$$345 \times 8$$

$$690 \times 4$$

$$1380 \times 2$$

$$8 \times 29$$

$$4 \times 58$$

$$2 \times 116$$

CATEGORY 3

Doubling and Halving with 2 x 2-digit numbers.

$$3 \times 60$$

$$6 \times 30$$

$$12 \times 15$$

$$9 \times 56$$

$$18 \times 28$$

$$36 \times 14$$

$$2 \times 280$$

$$4 \times 140$$

$$8 \times 70$$

$$16 \times 35$$

$$104 \times 3$$

$$52 \times 6$$

$$26 \times 12$$

$$4 \times 120$$

$$8 \times 60$$

$$32 \times 15$$

$$100 \times 4$$

$$50 \times 8$$

$$25 \times 16$$

$$112 \times 2$$

$$56 \times 4$$

$$28 \times 8$$

$$14 \times 16$$

$$360 \times 3$$

$$180 \times 6$$

$$90 \times 12$$

$$45 \times 24$$

$$2 \times 1440$$

$$4 \times 720$$

$$8 \times 360$$

$$16 \times 180$$

$$32 \times 90$$

$$64 \times 45$$

CATEGORY 4

For investigation of what happens when you third or triple or quarter and quadruple numbers.

$$9 \times 12$$

$$3 \times 36$$

$$1 \times 108$$

$$27 \times 15$$

$$9 \times 45$$

$$3 \times 135$$

$$1 \times 405$$

$$36 \times 18$$

$$72 \times 9$$

$$216 \times 3$$

$$648 \times 1$$

$$15 \times 16$$

$$60 \times 4$$

$$240 \times 1$$

$$25 \times 48$$

$$100 \times 12$$

$$400 \times 3$$

$$1200 \times 1$$

64×35

16×140

4×560

1×2240

$$18 \times 12$$

$$9 \times 24$$

$$4.5 \times 36$$

$$2.25 \times 72$$

$$6 \times 12$$

$$3 \times 24$$

$$1.5 \times 48$$

$$6 \times 24$$

$$3 \times 48$$

$$1.5 \times 96$$