

Number Drill Scope & Sequence

1. Basic Math Facts Curriculum

1. Add & Take away

1. Number recognition
2. 1+1 through 1+9
3. 0+2 through 8+2
4. 10-1 through 1-1
5. 10-2 through 2-2
6. 3+3 through 5+5
7. Adding up to 10

2. Addition

1. Adding 10
2. Adding 9
3. Adding 8
4. Neighbors
5. Doubles I
6. Doubles II
7. 5+3 through 10+10
8. Adding dice

3. Subtraction

1. 0-0 through 8-4
2. 0-0 through 10-5
3. 0-0 through 12-6
4. 0-0 through 14-7
5. 0-0 through 16-8
6. 0-0 through 50-50
7. 0-0 through 100-100

4. Multiplication 1

1. 0*0 through 2*2
2. 1*1 through 3*3
3. 2*1 through 5*5
4. Multiplying by 10
5. Multiplying by 5
6. Multiplying by 9
7. Multiplying by 8
8. 3*3 through 8*8

5. Division 1

1. 0/1 through 4/2
2. 0/1 through 9/3
3. 0/1 through 16/4
4. 0/1 through 25/5
5. 0/1 through 36/6

6. Multiplication 2

1. 3*2 through 12*12
2. Squares I
3. Squares II
4. Squares III
5. Square roots I
6. Square roots II
7. 3*3 through 25*25

7. Division 2

1. 24/x, 48/x
2. 25/x, 50/x, 75/x
3. 60/x, 30/x
4. 40/x, 42/x, 44/x, 45/x
5. 54/x, 49/x, 55/x, 56/x
6. 63/x, 64/x, 66/x
7. 72/x, 81/9, 121/11, 144/12

8. Combinations

1. Add and Sub through 12
2. Mult and Div through 12
3. +, -, * and / through 12
4. Add and Sub through 144
5. Mult and Div through 144
6. +, -, * and / through 144
7. Estimate adding 1
8. Estimate adding 2

2. Supplemental Math Facts

1. Addition 1

1. Adding 0's
2. Adding 1's
3. Adding 2's

Number Drill Scope & Sequence

4. Adding 3's
5. Adding 4's
6. Adding 5's
7. Adding 6's
8. Adding 7's

2. Addition 2

1. Adding 8's
2. Adding 9's
3. Adding 10's
4. 0+0 through 4+4
5. 5+5 through 10+10
6. 10+10 through 20+20
7. 0+0 through 50+50
8. 0+0 through 200+90

3. Subtraction 1

1. Subtracting 0's and 1's
2. Subtracting 2's
3. Subtracting 3's
4. Subtracting 4's
5. Subtracting 5's
6. Subtracting 6's
7. Subtracting 7's
8. Subtracting 8's

4. Subtraction 2

1. Subtracting 9's
2. Subtracting 10's
3. 0-0 through 10-5
4. 0-0 through 14-7
5. 0-0 through 16-8
6. 0-0 through 20-10
7. 0-0 through 50-20
8. 0-0 through 200-200

5. Multiplication 1

1. Multiplying 1's
2. Multiplying 2's
3. Multiplying 3's
4. Multiplying 4's
5. Multiplying 5's

6. Multiplying 6's
7. Multiplying 7's
8. Multiplying 8's

6. Multiplication 2

1. Multiplying 9's
2. Multiplying 10's
3. Multiplying 11's
4. Multiplying 12's
5. 0x0 through 5x5
6. 1x1 through 10x10
7. 1x1 through 12x12
8. 2x2 through 25x25

7. Division 1

1. Dividing by 1's
2. Dividing by 2's
3. Dividing by 3's
4. Dividing by 4's
5. Dividing by 5's
6. Dividing by 6's
7. Dividing by 7's
8. Dividing by 8's

8. Division 2

1. Dividing by 9's
2. Dividing by 10's
3. Dividing by 11's
4. Dividing by 12's
5. 0/1 through 25/5
6. 4/2 through 100/10
7. 4/2 through 144/12
8. 4/2 through 200/20

3. Fractions

1. Divisibility and prime numbers

1. Divisibility by 2, 3 and 5
2. Divisibility by 2, 3, 4, 5 and 6
3. Prime numbers

Number Drill Scope & Sequence

2. GCF, LCM and LCD

1. Greatest common factor 1
2. Greatest common factor 2
3. Least common multiple 1
4. Least common multiple 2
5. Least common denominator 1
6. Least common denominator 2

3. Reducing, converting & comparing

1. Reducing fractions 1
2. Reducing fractions 2
3. Converting improper fractions to mixed
4. Converting mixed fractions to improper
5. Proportions 1
6. Proportions 2
7. Simplest form (reduced and mixed)
8. Comparing fractions

4. Adding and subtracting fractions

1. Fractions: adding likes
2. Fractions: subtracting likes
3. Fractions: adding and subtracting likes
4. Fractions: adding 1 (mixed)
5. Fractions: adding 2 (mixed)
6. Fractions: subtracting (mixed)
7. Fractions: adding and subtracting (mixed)

5. Multiplying and dividing fractions

1. Fractions: multiplying (proper)
2. Fractions: multiplying
3. Fractions: dividing
4. Fractions: multiplying and dividing
5. Fractions: add / sub / mul / div

6. Estimating with fractions

1. $\frac{1}{2}$ of a number
2. $\frac{1}{3}$ of a number
3. $\frac{1}{4}$ of a number

4. $\frac{1}{5}$ of a number
5. Combination 1
6. Combination 2
7. Numerators greater than 1

4. Decimals and Percents

1. Decimal computation 1

1. Decimals: adding 1
2. Decimals: subtracting 1
3. Decimals: adding and subtracting 1
4. Decimals: multiplying 1
5. Decimals: dividing 1
6. Decimals: multiplying and dividing 1
7. Decimals: add / sub / mul / div 1

2. Decimal computation 2

1. Decimals: adding 2
2. Decimals: subtracting 2
3. Decimals: adding and subtracting 2
4. Decimals: multiplying 2
5. Decimals: dividing 2
6. Decimals: multiplying and dividing 2
7. Decimals: add / sub / mul / div 2

3. Converting

1. Converting fractions to percents
2. Converting percents to fractions
3. Converting fractions to decimals
4. Converting decimals to fractions
5. Converting between percents and decimals

4. Computing with percents

1. 50%, 100% and 200%
2. Percents of numbers related to 100
3. N% of B
4. A is what percent of B
5. A is N% of what number
6. Combining percents

Number Drill Scope & Sequence

5. Estimating with decimals

1. Finding a decimal 1
2. Finding a decimal 2
3. Finding a decimal 3

6. Estimating with percents

1. 50% of a number
2. 33% of a number
3. 25% of a number
4. 20% of a number
5. Estimating a percent: combination
6. Changing a number by a percent 1
7. Changing a number by a percent 2
8. Estimating the percent increase

5. Miscellaneous Topics

1. Integer computing

1. Integers: comparing sizes
2. Integers: adding
3. Integers: subtracting
4. Integers: adding and subtracting
5. Integers: multiplying
6. Integers: dividing
7. Integers: multiplying and dividing
8. Integers: add / sub / mul / div 1

2. Rounding

1. Rounding to the nearest 10
2. Rounding to the nearest 100
3. Rounding to the nearest 1000
4. Rounding decimals

3. Estimating with money

1. Round to nearest dollar
2. Estimate total cost: level 1
3. Estimate total cost: level 2
4. Estimate savings at a sale
5. Estimate 15% tips for waiters

4. Mean (average), mode, median topics

1. Mean: level 1
2. Mean: level 2
3. Mean: level 3
4. Mean, mode, and median

5. Base 2 and base 16

1. Base 10 to base 2
2. Base 2 to base 10
3. Base 10 to base 16
4. Base 16 to base 10

6. Equations with whole numbers

1. adding ($a + 2 = 7$)
2. subtracting ($a - 2 = 2$)
3. adding and subtracting
4. multiplying ($2a = 18$)
5. dividing ($a/2 = 8$)
6. multiplying and dividing
7. add / sub / mul / div
8. two operations ($2a + 1 = 7$)

7. Equations with integers

1. adding ($a + 2 = -4$)
2. subtracting ($a - 3 = -2$)
3. adding and subtracting
4. multiplying ($-3a = 15$)
5. dividing ($a/3 = -9$)
6. multiplying and dividing
7. add / sub / mul / div
8. two operations ($2a - 1 = -3$)

8. Roman Numerals

1. I through X
2. XI through L
3. LI through C
4. I through C
5. C through M
6. M through MMM