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Name: _____

Order of Operations

7 - 4 + 9
8 - 2 = 3
23 + 1 - 5
12 - 4 × 8
36 ÷ 2 + 3
6 × 9 ÷ 3
3 + 6 ÷ 3
11 - 2 × 5
3 × 2 + 4
(7 - 4) × 5
3 × (3 + 4)
(21 + 1) ÷ 2
4 × (2 + 6)

1 2 3 4 5
6 7 8 9 10
11 12 13 14 15
16 17 18 19 20
21 22 23 24 25

7 + 6 × 3
14 × 2 + 3
8 × 2 + 1 × 9
8 + 2 + 18 = 2
(4 + 2) + 3 + 7 = 9
22 + 3 - 6 + 3
5 × 4 + 8 + 4
20 - 2 - 2 × 8
17 - 3 + 9 + 3
(9 - 2 + 9) ÷ 2

Name: _____

Order of Operations

7 - 4 + 9 = 12
8 - 2 = 3
23 + 1 - 5 = 19
12 - 4 × 8 = 24
36 ÷ 2 + 3 = 6
6 × 9 ÷ 3 = 18
3 + 6 ÷ 3 = 5
11 - 2 × 5 = 1
3 × 2 + 4 = 10
(7 - 4) × 5 = 15
3 × (3 + 4) = 21
(21 + 1) ÷ 2 = 11
4 × (2 + 6) = 16

7 + 6 × 3 = 25
14 × 2 - 3 = 4
8 × 2 + 1 × 9 = 7
8 + 2 + 18 = 2
(4 + 2) + 3 + 7 = 9
22 + 3 - 6 + 3 = 21
5 × 4 + 8 + 4 = 22
20 - 2 - 2 × 8 = 2
17 - 3 + 9 + 3 = 17
(9 - 2 + 9) ÷ 2 = 8

Name: _____

Single Digit Division

2174 = 87
5145 = 29
3228 = 76
4140 = 35
9495 = 55
6828 = 138
7756 = 108
2628 = 314
3234 = 78
8512 = 64
5625 = 125
9279 = 31
4272 = 68

76 36 54 180 60
120 31 35 314 87
55 105 246 128 78
125 29 64 231 135
292 38 76 96 138
4984
9945
3162
4152
6768
7532

6720 = 120
9288 = 36
2462 = 231
7945 = 135
3876 = 292
5480 = 96

4984 = 246
9945 = 105
3162 = 54
4152 = 38
6768 = 128
7532 = 76

Name: _____

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4984 = 246
9945 = 105
3162 = 54
4152 = 38
6768 = 128
7532 = 76

Name: _____

Fractions to Decimals

1/2 = 0.5
1/3 = 0.333...
1/4 = 0.25
1/5 = 0.2
1/6 = 0.166...
1/8 = 0.125
1/10 = 0.1
1/12 = 0.083...
1/15 = 0.066...
1/20 = 0.05
1/25 = 0.04
1/30 = 0.033...
1/40 = 0.025
1/50 = 0.02
1/60 = 0.0166...
1/75 = 0.0133...
1/100 = 0.01

Name: _____

Fractions to Decimals

1/2 = 0.5
1/3 = 0.75
1/4 = 0.4
1/5 = 0.9
1/6 = 0.125
1/8 = 0.3
1/10 = 0.15
1/12 = 0.6
1/15 = 0.3
1/20 = 0.625
1/25 = 0.2
1/30 = 0.7
1/40 = 0.16
1/50 = 0.6
1/60 = 0.1
1/75 = 0.875
1/100 = 0.375
1/125 = 0.8
1/150 = 0.12

Name: _____

Solving Two Step Equations Practice 3

4x + 3 = 23
2x - 10 = -32
-4x + 1 = -27
6x - 2 = -20
1/2 x + 6 = 6
-5x - 5 = 30
-1 + 3 = -8
-7x + 4 = -25
8x - 20 = 28
1/2 x + 2 = 5
8x + 1 = 1

7 + 6 × 3 = 25
14 × 2 - 3 = 4
8 × 2 + 1 × 9 = 7
8 + 2 + 18 = 2
(4 + 2) + 3 + 7 = 9
22 + 3 - 6 + 3 = 21
5 × 4 + 8 + 4 = 22
20 - 2 - 2 × 8 = 2
17 - 3 + 9 + 3 = 17
(9 - 2 + 9) ÷ 2 = 8

Name: _____

Key Solving Two Step Equations Practice 3

4x + 3 = 23
2x - 10 = -32
-4x + 1 = -27
6x - 2 = -20
1/2 x + 6 = 6
-5x - 5 = 30
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-7x + 4 = -25
8x - 20 = 28
1/2 x + 2 = 5
8x + 1 = 1

7 + 6 × 3 = 25
14 × 2 - 3 = 4
8 × 2 + 1 × 9 = 7
8 + 2 + 18 = 2
(4 + 2) + 3 + 7 = 9
22 + 3 - 6 + 3 = 21
5 × 4 + 8 + 4 = 22
20 - 2 - 2 × 8 = 2
17 - 3 + 9 + 3 = 17
(9 - 2 + 9) ÷ 2 = 8

Name: _____

Adding and Subtracting Fractions

1/2 + 1/3 = 5/6
1/4 + 1/5 = 9/20
1/6 + 1/8 = 7/24
1/10 + 1/12 = 11/60
1/15 + 1/20 = 1/4
1/20 + 1/25 = 9/100
1/30 + 1/40 = 7/60
1/40 + 1/50 = 9/200
1/50 + 1/60 = 11/300
1/60 + 1/75 = 1/10
1/75 + 1/100 = 1/25
1/100 + 1/125 = 9/500
1/125 + 1/150 = 11/750
1/150 + 1/180 = 1/90
1/180 + 1/200 = 11/900
1/200 + 1/250 = 9/500
1/250 + 1/300 = 11/1500
1/300 + 1/360 = 1/90
1/360 + 1/400 = 13/3600
1/400 + 1/450 = 17/3600
1/450 + 1/500 = 11/500
1/500 + 1/560 = 11/2800
1/560 + 1/600 = 11/840
1/600 + 1/630 = 11/630
1/630 + 1/675 = 11/675
1/675 + 1/700 = 11/700
1/700 + 1/720 = 11/720
1/720 + 1/750 = 11/750
1/750 + 1/780 = 11/780
1/780 + 1/800 = 11/800
1/800 + 1/840 = 11/840
1/840 + 1/875 = 11/875
1/875 + 1/900 = 11/900
1/900 + 1/930 = 11/930
1/930 + 1/960 = 11/960
1/960 + 1/990 = 11/990
1/990 + 1/1000 = 11/1000
1/1000 + 1/1050 = 11/1050
1/1050 + 1/1100 = 11/1100
1/1100 + 1/1125 = 11/1125
1/1125 + 1/1150 = 11/1150
1/1150 + 1/1170 = 11/1170
1/1170 + 1/1190 = 11/1190
1/1190 + 1/1200 = 11/1200
1/1200 + 1/1225 = 11/1225
1/1225 + 1/1240 = 11/1240
1/1240 + 1/1260 = 11/1260
1/1260 + 1/1275 = 11/1275
1/1275 + 1/1290 = 11/1290
1/1290 + 1/1300 = 11/1300
1/1300 + 1/1320 = 11/1320
1/1320 + 1/1335 = 11/1335
1/1335 + 1/1350 = 11/1350
1/1350 + 1/1365 = 11/1365
1/1365 + 1/1380 = 11/1380
1/1380 + 1/1395 = 11/1395
1/1395 + 1/1400 = 11/1400
1/1400 + 1/1410 = 11/1410
1/1410 + 1/1420 = 11/1420
1/1420 + 1/1430 = 11/1430
1/1430 + 1/1440 = 11/1440
1/1440 + 1/1450 = 11/1450
1/1450 + 1/1460 = 11/1460
1/1460 + 1/1470 = 11/1470
1/1470 + 1/1480 = 11/1480
1/1480 + 1/1490 = 11/1490
1/1490 + 1/1500 = 11/1500

Name: _____

Adding and Subtracting Fractions

1/2 + 1/3 = 5/6
1/4 + 1/5 = 9/20
1/6 + 1/8 = 7/24
1/10 + 1/12 = 11/60
1/15 + 1/20 = 1/4
1/20 + 1/25 = 9/100
1/30 + 1/40 = 7/60
1/40 + 1/50 = 9/200
1/50 + 1/60 = 11/300
1/60 + 1/75 = 1/10
1/75 + 1/100 = 1/25
1/100 + 1/125 = 9/500
1/125 + 1/150 = 11/750
1/150 + 1/180 = 1/90
1/180 + 1/200 = 11/900
1/200 + 1/250 = 9/500
1/250 + 1/300 = 11/1500
1/300 + 1/360 = 1/90
1/360 + 1/400 = 13/3600
1/400 + 1/450 = 17/3600
1/450 + 1/500 = 11/500
1/500 + 1/560 = 11/2800
1/560 + 1/600 = 11/840
1/600 + 1/630 = 11/630
1/630 + 1/675 = 11/675
1/675 + 1/700 = 11/700
1/700 + 1/720 = 11/720
1/720 + 1/750 = 11/750
1/750 + 1/780 = 11/780
1/780 + 1/800 = 11/800
1/800 + 1/840 = 11/840
1/840 + 1/875 = 11/875
1/875 + 1/900 = 11/900
1/900 + 1/930 = 11/930
1/930 + 1/960 = 11/960
1/960 + 1/990 = 11/990
1/990 + 1/1000 = 11/1000
1/1000 + 1/1050 = 11/1050
1/1050 + 1/1100 = 11/1100
1/1100 + 1/1125 = 11/1125
1/1125 + 1/1150 = 11/1150
1/1150 + 1/1170 = 11/1170
1/1170 + 1/1190 = 11/1190
1/1190 + 1/1200 = 11/1200
1/1200 + 1/1225 = 11/1225
1/1225 + 1/1240 = 11/1240
1/1240 + 1/1260 = 11/1260
1/1260 + 1/1275 = 11/1275
1/1275 + 1/1290 = 11/1290
1/1290 + 1/1300 = 11/1300
1/1300 + 1/1320 = 11/1320
1/1320 + 1/1335 = 11/1335
1/1335 + 1/1350 = 11/1350
1/1350 + 1/1365 = 11/1365
1/1365 + 1/1380 = 11/1380
1/1380 + 1/1395 = 11/1395
1/1395 + 1/1400 = 11/1400
1/1400 + 1/1410 = 11/1410
1/1410 + 1/1420 = 11/1420
1/1420 + 1/1430 = 11/1430
1/1430 + 1/1440 = 11/1440
1/1440 + 1/1450 = 11/1450
1/1450 + 1/1460 = 11/1460
1/1460 + 1/1470 = 11/1470
1/1470 + 1/1480 = 11/1480
1/1480 + 1/1490 = 11/1490
1/1490 + 1/1500 = 11/1500

Name: _____

Factoring

Prime Factor: Fill in the boxes

12, 18, 30, 40, 12

Prime Factor the following numbers:
9, 36, 48, 72, 84, 96, 108, 144

List all the factors:
10, 12, 15, 16, 24, 17, 32, 18, 36, 19, 30

Find the GCF:
20) 6 and 12 21) 24 and 36 22) 24 and 30 23) 12 and 30 24) 18 and 18

GCF = GCF = GCF = GCF = GCF =

Name: _____

Factoring

Prime Factor: Fill in the boxes

12, 18, 30, 40, 12

Prime Factor the following numbers:
9, 36, 48, 72, 84, 96, 108, 144

List all the factors:
10, 12, 15, 16, 24, 17, 32, 18, 36, 19, 30

Find the GCF:
20) 6 and 12 21) 24 and 36 22) 24 and 30 23) 12 and 30 24) 18 and 18

GCF = GCF = GCF = GCF = GCF =

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List all the factors:
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Find the GCF:
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GCF = GCF = GCF = GCF = GCF =

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Prime Factor the following numbers:
9, 36, 48, 72, 84, 96, 108, 144

List all the factors:
10, 12, 15, 16, 24, 17, 32, 18, 36, 19, 30

Find the GCF:
20) 6 and 12 21) 24 and 36 22) 24 and 30 23) 12 and 30 24) 18 and 18

GCF = GCF = GCF = GCF = GCF =

Name: _____

Solving Quadratic Equations using the Quadratic Formula

Quadratic Formula: $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

Example: $3x^2 - 16x + 5 = 0$
 $a = 3, b = -16, c = 5$
 $x = \frac{-(-16) \pm \sqrt{(-16)^2 - 4(3)(5)}}{2(3)} = \frac{16 \pm \sqrt{256 - 60}}{6} = \frac{16 \pm \sqrt{196}}{6} = \frac{16 \pm 14}{6}$
 $x = \frac{16 + 14}{6} = 5$ or $x = \frac{16 - 14}{6} = \frac{2}{6} = \frac{1}{3}$

1. $a = \dots, b = \dots, c = \dots$
 $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} = \frac{-b \pm \sqrt{\dots}}{2(\dots)} = \dots$

2. $a = \dots, b = \dots, c = \dots$
 $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} = \frac{-b \pm \sqrt{\dots}}{2(\dots)} = \dots$

Polygons

Polygon Name	Shape	Number of sides	Number of triangles formed	Sum of the interior angles	Sum of the exterior angles
Triangle		3	1	180	360
Quadrilateral		4	2	360	360
Pentagon		5	3	540	360
Hexagon		6	4	720	360
Heptagon		7	5	900	360
Octagon		8	6	1080	360
Nonagon		9	7	1260	360
Decagon		10	8	1440	360

Polygons

Polygon Name	Shape	Number of sides	Number of triangles formed	Sum of the interior angles	Sum of the exterior angles
Triangle		3	1	180	360
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Octagon		8	6	1080	360
Nonagon		9	7	1260	360
Decagon		10	8	1440	360

Name: _____

1)

2)

3)

4)

5)

6)

7)

8)

9)

10)

11)

12)

13)

14)

15)

16)

17)

18)

19)

20)

21)

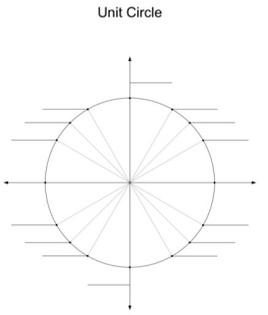
22)

23)

24)

Trigonometric Values

Degrees	Radians	Sine	Cosine	Tangent	Cosecant	Secant	Cotangent
0°	0	0	1	0	undef	1	undef
30°	π/6	1/2	√3/2	1/√3	√3	2/√3	√3
45°	π/4	√2/2	√2/2	1	√2	√2	1
60°	π/3	√3/2	1/2	√3	2/√3	2	1/√3
90°	π/2	1	0	undef	1	undef	0
120°	2π/3	√3/2	-1/2	-√3	2/√3	-2	-1/√3
135°	3π/4	√2/2	-√2/2	-1	√2	-√2	-1
150°	5π/6	1/2	-√3/2	-√3	2/√3	-2	-1/√3
180°	π	0	-1	0	undef	-1	undef
210°	7π/6	-1/2	-√3/2	1/√3	√3	-2/√3	√3
225°	5π/4	-√2/2	-√2/2	1	√2	-√2	1
240°	4π/3	-√3/2	-1/2	√3	2/√3	-2	1/√3
270°	3π/2	-1	0	undef	-1	undef	0
300°	5π/3	-1/2	√3/2	-1/√3	√3	-2/√3	√3
315°	7π/4	-√2/2	√2/2	-1	√2	-√2	-1
330°	11π/6	-1/2	√3/2	-√3	2/√3	-2	-1/√3
360°	2π	0	1	0	undef	1	undef



Name: _____

Divisible by:

Divisible by:	2	3	4	5	6	9	10
120	Yes	Yes	Yes	Yes	Yes	No	Yes
121	Yes	No	No	No	No	No	No
122	Yes	No	No	No	No	No	No
123	No	Yes	No	No	No	No	No
124	Yes	No	Yes	No	No	No	No
125	No	No	No	Yes	No	No	No
126	Yes	Yes	No	No	Yes	No	No
127	No	No	No	No	No	No	No
128	Yes	No	No	No	No	No	No
129	No	Yes	No	No	No	No	No
130	Yes	No	No	No	No	No	No
131	No	No	No	No	No	No	No
132	Yes	Yes	Yes	No	Yes	No	No
133	No	No	No	No	No	No	No
134	Yes	No	No	No	No	No	No
135	No	Yes	No	No	No	No	No
136	Yes	No	No	No	No	No	No
137	No	No	No	No	No	No	No
138	Yes	Yes	No	No	Yes	No	No
139	No	No	No	No	No	No	No
140	Yes	No	No	No	No	No	No
141	No	Yes	No	No	No	No	No

Addition Table (Positive and Negative)

Example: $2 + (-5) = (-5) + 2 = -3$

+	-1	-2	-3	-4	-5	-6	-7	-8	-9	-10	-11	-12	-13	-14	-15
1	0	-1	-2	-3	-4	-5	-6	-7	-8	-9	-10	-11	-12	-13	-14
2	1	0	-1	-2	-3	-4	-5	-6	-7	-8	-9	-10	-11	-12	-13
3	2	1	0	-1	-2	-3	-4	-5	-6	-7	-8	-9	-10	-11	-12
4	3	2	1	0	-1	-2	-3	-4	-5	-6	-7	-8	-9	-10	-11
5	4	3	2	1	0	-1	-2	-3	-4	-5	-6	-7	-8	-9	-10
6	5	4	3	2	1	0	-1	-2	-3	-4	-5	-6	-7	-8	-9
7	6	5	4	3	2	1	0	-1	-2	-3	-4	-5	-6	-7	-8
8	7	6	5	4	3	2	1	0	-1	-2	-3	-4	-5	-6	-7
9	8	7	6	5	4	3	2	1	0	-1	-2	-3	-4	-5	-6
10	9	8	7	6	5	4	3	2	1	0	-1	-2	-3	-4	-5
11	10	9	8	7	6	5	4	3	2	1	0	-1	-2	-3	-4
12	11	10	9	8	7	6	5	4	3	2	1	0	-1	-2	-3
13	12	11	10	9	8	7	6	5	4	3	2	1	0	-1	-2
14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	-1
15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0