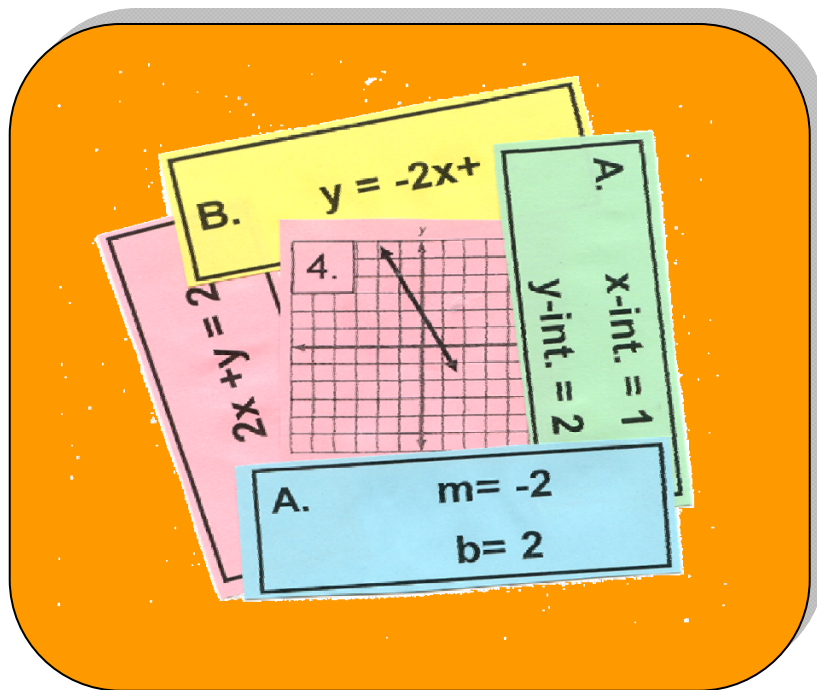


Matching Mania

for Remediation



MatchingMania

For Remediation

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Suggestions for MatchingMania

- 1 All worksheets are numbered down the left side for the number of problems within the activity. The different concepts or answers are listed across the top of the worksheet.
- 2 Run off each concept within the activity on different colored paper or card stock. This way, the students can easily identify the problem from the answer(s).
- 3 Once the students have completed the activity, have them alphabetize the concepts for use next time. This allows the answers to be mixed up and does not help the next group work the problems more easily.
- 4 The first time you run off a set of MatchingMania cards, you will spend some time cutting out each activity. If you will have the students near the end of the class period help you cut the cards out, this saves time for you and they will sometimes "own" the activity.
- 5 Use zipper lock quart size bags to store each set of MatchingMania activity cards. Use gallon bags to store all the individual activity cards, as well as extra answer sheets and the answer key.

Whole Number Operations1

MatchingMania

- 1 Whole Number Operations1 consists of 20 pairs of whole numbers. Each pair of whole numbers is then used to find the sum, difference and product.
- 2 The worksheet, whole numbers and the appropriate forms of the answer are listed below:
 - page 1** Worksheet
 - page 2** The pairs of whole numbers
 - page 3** The sum of the two whole numbers
 - page 4** The difference of the two whole numbers
 - page 5** The product of the two whole numbers
- 3 Divide the students into groups of 2. Then hand each group 2 worksheets and a bag of Whole Number Operations1 MatchingMania cards. Students work as a pair matching the appropriate solutions to each problem, but will individually fill out their own worksheets.
- 4 When the students complete this activity, they return the MatchingMania cards back to the plastic storage bag and hand the worksheets in to the teacher.

Whole Number Operations1

MatchingMania

	sum	difference	product
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

1. 364 184	11. 720 352
2. 932 864	12. 939 367
3. 417 3	13. 386 331
4. 243 192	14. 482 219
5. 721 444	15. 954 465
6. 307 66	16. 998 843
7. 678 58	17. 888 671
8. 891 619	18. 467 402
9. 532 327	19. 106 8
10 823 223	20. 925 919

a. sum = 548	t. sum = 1796
b. sum = 435	s. sum = 736
c. sum = 1510	r. sum = 1844
d. sum = 420	q. sum = 701
e. sum = 114	p. sum = 1306
f. sum = 1072	o. sum = 717
g. sum = 373	n. sum = 1841
h. sum = 859	m. sum = 1165
i. sum = 1419	l. sum = 1559
j. sum = 869	k. sum = 1046

A. difference= 263	T. difference= 6
B. difference= 205	S. difference= 68
C. difference= 241	R. difference= 572
D. difference= 98	Q. difference= 155
E. difference= 368	P. difference= 65
F. difference= 489	O. difference= 277
G. difference= 55	N. difference= 180
H. difference= 272	M. difference= 51
I. difference= 217	L. difference= 600
J. difference= 414	K. difference= 620

g. product = 1251	z. product = 848
h. product = 187734	y. product = 443610
i. product = 805248	x. product = 551529
j. product = 841314	w. product = 253440
k. product = 850075	v. product = 127766
l. product = 595848	u. product = 105558
m. product = 66976	t. product = 344613
n. product = 173964	s. product = 20262
o. product = 46656	r. product = 183529
p. product = 320124	q. product = 39324

Decimal Operations1

MatchingMania

- 1 Decimal Operations1 consists of 20 pairs of two digit decimals. Each pair of decimals is used to find the sum, difference and product.
- 2 The worksheet, decimals, and the appropriate forms of the answer are listed below:
 - page 1** **Worksheet**
 - page 2** **The pairs of decimal numbers**
 - page 3** **The sum of the two decimals**
 - page 4** **The difference of the two decimals**
 - page 5** **The product of the two decimals to two decimal places**
- 3 Divide the students into groups of 2. Then hand each group 2 worksheets and a bag of Decimal Operations1 MatchingMania cards. Students work as a pair matching the appropriate solutions to each problem, but will individually fill out their own worksheets.
- 4 When the students complete this activity, they return the MatchingMania cards back to the plastic storage bag and hand the worksheets in to the teacher.

Decimal Operations1

MatchingMania

	sum	difference	product
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

1. 23.59 21.63	11. 65.14 58.48
2. 43.17 19.48	12. 88.10 71.17
3. 51.27 37.71	13. 60.10 54.91
4. 37.54 27.48	14. 22.99 18.47
5. 99.45 87.37	15. 38.47 29.90
6. 59.17 44.16	16. 87.81 55.00
7. 84.24 27.57	17. 69.18 58.19
8. 27.00 21.63	18. 55.24 40.00
9. 15.14 9.84	19. 28.17 19.89
10 39.84 27.00	20. 60.28 45.19

a. sum = 48.06	t. sum = 95.24
b. sum = 186.82	s. sum = 159.27
c. sum = 24.98	r. sum = 62.65
d. sum = 115.01	q. sum = 68.37
e. sum = 123.62	p. sum = 142.81
f. sum = 88.98	o. sum = 48.63
g. sum = 111.81	n. sum = 105.47
h. sum = 127.37	m. sum = 65.02
i. sum = 41.46	l. sum = 103.33
j. sum = 45.22	k. sum = 66.84

A. difference= 8.57	T. difference= 12.08
B. difference= 1.96	S. difference= 15.01
C. difference= 56.67	R. difference= 32.81
D. difference= 15.24	Q. difference= 5.37
E. difference= 15.09	P. difference= 23.69
F. difference= 5.30	O. difference= 16.93
G. difference= 6.66	N. difference= 5.19
H. difference= 12.84	M. difference= 13.56
I. difference= 10.06	L. difference= 8.28
J. difference= 10.99	K. difference= 4.52

g. product = 3809.39	z. product = 1075.68
h. product = 560.30	y. product = 1031.60
i. product = 4829.55	x. product = 6270.08
j. product = 1933.39	w. product = 8688.95
k. product = 2209.60	v. product = 840.95
l. product = 1150.25	u. product = 584.01
m. product = 424.63	t. product = 2322.50
n. product = 2724.05	s. product = 3300.09
o. product = 4025.58	r. product = 148.98
p. product = 510.25	q. product = 2612.95

Decimal Operations2

MatchingMania

- 1 Decimal Operations2 consists of 20 pairs of decimals with varying decimal places. Each pair of decimals is used to find the sum, difference or product.
- 2 The worksheet, decimals and the appropriate forms of the answer are listed below:
 - page 1** Worksheet
 - page 2** The pairs of decimal numbers
 - page 3** The sum of the two decimals
 - page 4** The difference of the two decimals
 - page 5** The product of the two decimals
- 3 Divide the students into groups of 2. Then hand each group 2 worksheets and a bag of Decimal Operations2 MatchingMania cards. Students work as a pair matching the appropriate solutions to each problem, but will individually fill out their own worksheets.
- 4 When the students complete this activity, they return the MatchingMania cards back to the plastic storage bag and hand the worksheets in to the teacher.

Decimal Operations2

MatchingMania

	sum	difference	product
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

1. 15.4 9.57	11. 30.1 26.74
2. 21.685 19.5	12. 57.4 17.289
3. 15 10.258	13. 66.87 58.68
4. 98.247 67.5	14. 24.533 13.94
5. 38.55 30	15. 5.47 2.1
6. 12.1 9.998	16. 65 41.087
7. 50 21.87	17. 99.015 87.95
8. 41.89 18.554	18. 56.007 41.8
9. 38.544 27.1	19. 27.087 21.4
10 16.5 14.19	20. 84.09 71.335

a. sum = 74.689	t. sum = 25.258
b. sum = 22.098	s. sum = 7.57
c. sum = 48.487	r. sum = 68.55
d. sum = 125.55	q. sum = 97.807
e. sum = 60.444	p. sum = 165.747
f. sum = 56.84	o. sum = 24.97
g. sum = 30.69	n. sum = 186.965
h. sum = 38.473	m. sum = 41.185
i. sum = 155.425	l. sum = 106.087
j. sum = 71.87	k. sum = 65.644

A. difference= 2.185	T. difference= 4.742
B. difference= 5.83	S. difference= 3.37
C. difference= 12.755	R. difference= 2.31
D. difference= 5.687	Q. difference= 23.913
E. difference= 8.19	P. difference= 28.13
F. difference= 30.747	O. difference= 11.065
G. difference= 11.444	N. difference= 3.36
H. difference= 8.55	M. difference= 2.102
I. difference= 14.207	L. difference= 10.593
J. difference= 23.336	K. difference= 40.111

g. product = 804.874	z. product = 422.8575
h. product = 6631.6725	y. product = 2670.655
i. product = 3923.9316	x. product = 579.6618
j. product = 234.135	w. product = 153.87
k. product = 1044.5424	v. product = 120.9758
l. product = 8708.36925	u. product = 777.22706
m. product = 992.3886	t. product = 2341.0926
n. product = 11.487	s. product = 1156.5
o. product = 5998.56015	r. product = 341.99002
p. product = 1093.5	q. product = 147.378

Operations with Fractions

MatchingMania

- 1 Operations with Fractions MatchingMania consists of 16 pairs of fractions that can be simplified by addition, subtraction, and multiplication using the fractions rules. Students will perform each operation to find the appropriate answer. All answers must be reduced and in mixed number form.
- 2 The worksheet, fractions, and the answers to each operation are listed below:
 - page 1** **Worksheet**
 - page 2** **Fraction pairs (common denominators)**
 - page 3** **Sum of the Fraction pairs (common denominators)**
 - page 4** **Difference of the Fraction pairs (common denominators)**
 - page 5** **Product of the Fraction pairs**
- 3 Divide the students into groups of 2. Then hand each group 2 worksheets and a bag of Operations with Fractions MatchingMania cards. Students work as a pair matching the appropriate solutions to each problem, but will individually fill out their own worksheets.
- 4 When the students complete this activity, they return the MatchingMania cards back to the plastic storage bag and hand the worksheets in to the teacher.

Operations with Fractions Worksheet

Fractions	Sum	Difference	Product
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			

Operations with Fractions Worksheet

Fractions	Sum	Difference	Product
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			

1	$\frac{8}{9}$	$\frac{4}{9}$	2	$\frac{2}{5}$	$\frac{1}{5}$
3	$3\frac{9}{11}$	$2\frac{4}{11}$	4	$3\frac{7}{11}$	$2\frac{1}{11}$
5	$\frac{4}{9}$	$\frac{2}{9}$	6	$4\frac{3}{10}$	$2\frac{9}{10}$
7	$\frac{5}{6}$	$\frac{5}{6}$	8	$3\frac{7}{12}$	$2\frac{7}{12}$
9	$1\frac{5}{10}$	$\frac{3}{10}$	10	$\frac{2}{3}$	$\frac{1}{3}$
11	$5\frac{3}{4}$	$3\frac{3}{4}$	12	$\frac{7}{10}$	$\frac{2}{10}$
13	$\frac{4}{5}$	$\frac{2}{5}$	14	$5\frac{3}{5}$	$2\frac{4}{5}$
15	$2\frac{3}{7}$	$\frac{4}{7}$	16	1	$\frac{3}{10}$

A. sum= 1 1/3	R. sum= 1 1/5
B. sum= 7 1/5	Q. sum= 1 4/5
C. sum= 1 2/3	P. sum= 1
D. sum= 6 1/6	O. sum= 6 2/11
E. sum= 9/10	N. sum= 1 3/10
F. sum= 8 2/5	M. sum= 5 8/11
G. sum= 9 1/2	L. sum= 2/3
H. sum= 3	K. sum= 3/5

A. difference = $2/9$	R. difference = $1 \frac{1}{5}$
B. difference = 2	Q. difference = $7/10$
C. difference = $1 \frac{6}{7}$	P. difference = $2/5$
D. difference = $1 \frac{5}{11}$	O. difference = $2 \frac{4}{5}$
E. difference = $1/2$	N. difference = $1 \frac{6}{11}$
F. difference = $1/5$	M. difference = 0
G. difference = $1 \frac{2}{5}$	L. difference = $4/9$
H. difference = 1	K. difference = $1/3$

a. product = $8/81$	p. product = $8/25$
b. product = $2/9$	o. product = $9 \ 37/144$
c. product = $21 \ 9/16$	n. product = $25/36$
d. product = $3/10$	m. product = $9 \ 3/121$
e. product = $32/81$	l. product = $2/25$
f. product = $12 \ 47/100$	k. product = $7 \ 73/121$
g. product = $7/50$	j. product = $9/20$
h. product = $15 \ 17/25$	i. product = $1 \ 19/49$

Operations with Fractions2

MatchingMania

- 1 Operations with Fractions2 MatchingMania consists of 16 pairs of integers that can be simplified by addition, subtraction, multiplication and division using the fraction rules. Students will perform each operation to find the appropriate answer. All answers must be in simplified, mixed form when necessary.
- 2 The worksheet, fractions and the answers to each operation are listed below:
 - page 1** **Worksheet**
 - page 2** **Fraction pairs (different denominators)**
 - page 3** **Sum of the Fraction pairs (common denominators)**
 - page 4** **Difference of the Fraction pairs (common denominators)**
 - page 5** **Product of the Fraction pairs**
 - page 6** **Quotient of the Fraction pairs**
 - page 7** **Least Common Denominators (LCD)**
- 3 Divide the students into groups of 2. Then hand each group 2 worksheets and a bag of Operations with Fractions2 MatchingMania cards. Students work as a pair matching the appropriate solutions to each problem, but will individually fill out their own worksheets.
- 4 When the students complete this activity, they return the MatchingMania cards back to the plastic storage bag and hand the worksheets in to the teacher.

Operations with Fractions2 Worksheet

Fractions	LCD	Sum	Diff.	Product	Quotient
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					

Operations with Fractions2 Worksheet

Fractions	LCD	Sum	Diff.	Product	Quotient
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					

1	$3\frac{1}{2}$	$1\frac{3}{8}$	2	$\frac{8}{9}$	$\frac{1}{3}$
3	$2\frac{1}{8}$	$\frac{2}{3}$	4	$\frac{2}{3}$	$\frac{1}{6}$
5	$\frac{1}{2}$	$\frac{3}{8}$	6	$2\frac{1}{6}$	$\frac{2}{3}$
7	$\frac{4}{5}$	$\frac{1}{4}$	8	$3\frac{1}{2}$	$2\frac{1}{8}$
9	$3\frac{5}{6}$	$1\frac{1}{3}$	10	$\frac{7}{8}$	$\frac{1}{3}$
11	$\frac{5}{6}$	$\frac{2}{3}$	12	$3\frac{4}{5}$	$2\frac{2}{3}$
13	$4\frac{3}{5}$	$2\frac{2}{3}$	14	$\frac{4}{5}$	$\frac{2}{3}$
15	$4\frac{3}{5}$	$3\frac{1}{4}$	16	$3\frac{1}{5}$	$1\frac{3}{4}$

A. Sum= 7 17/20	R. Sum= 5 1/6
B. Sum= 4 19/20	Q. Sum= 1 1/20
C. Sum= 7/8	P. Sum= 2 5/6
D. Sum= 5/6	O. Sum= 1 2/9
E. Sum= 6 7/15	N. Sum= 2 19/24
F. Sum= 5 5/8	M. Sum= 7 4/15
G. Sum= 4 7/8	L. Sum= 1 5/24
H. Sum= 1 1/2	K. Sum= 1 7/15

A. Difference = 2 1/8	R. Difference = 1 14/15
B. Difference = 1/2	Q. Difference = 2 1/2
C. Difference = 5/9	P. Difference = 1 1/2
D. Difference = 1/8	O. Difference = 1 11/24
E. Difference = 13/24	N. Difference = 1 3/8
F. Difference = 2/15	M. Difference = 11/20
G. Difference = 1/6	L. Difference = 1 9/20
H. Difference = 1 2/15	K. Difference = 1 7/20

a. Product = 1/9	p. Product = 5 1/9
b. Product = 1 5/12	o. Product = 8/27
c. Product = 1 4/9	n. Product = 12 4/15
d. Product = 5/9	m. Product = 3/16
e. Product = 10 2/15	l. Product = 7/24
f. Product = 1/5	k. Product = 7 7/16
g. Product = 14 19/20	j. Product = 8/15
h. Product = 5 3/5	i. Product = 4 13/16

a. Quotient = 1 1/3	p. Quotient = 1 1/4
b. Quotient = 2 7/8	o. Quotient = 3 1/4
c. Quotient = 1 29/35	n. Quotient = 3 3/16
d. Quotient = 2 6/11	m. Quotient = 2 2/3
e. Quotient = 4	l. Quotient = 1 1/5
f. Quotient = 1 29/40	k. Quotient = 1 11/17
g. Quotient = 2 5/8	j. Quotient = 3 1/5
h. Quotient = 1 17/40	i. Quotient = 1 27/65

b. LCD = 6	g. LCD = 24
b. LCD = 6	g. LCD = 24
b. LCD = 6	f. LCD = 20
b. LCD = 6	f. LCD = 20
c. LCD = 8	f. LCD = 20
c. LCD = 8	e. LCD = 15
c. LCD = 8	e. LCD = 15
d. LCD = 9	e. LCD = 15

Fractions to Decimals to Percents MatchingMania

- 1 Fractions to Decimals to Percents MatchingMania consists of 18 fractions that can be converted into decimal and percent form. Students will perform the appropriate conversion to change the fractions into the appropriate form.
- 2 The worksheet, fractions and the appropriate forms of the answer are listed below:
 - page 1** **Worksheet**
 - page 2** **The fractions to be converted**
 - page 3** **The solution as a decimal**
 - page 4** **The solution as a percent**
- 3 Divide the students into groups of 2. Then hand each group 2 worksheets and a bag of Fractions to Decimals to Percents MatchingMania cards. Students work as a pair matching the appropriate solutions to each problem, but will individually fill out their own worksheets.
- 4 When the students complete this activity, they return the MatchingMania cards back to the plastic storage bag and hand the worksheets in to the teacher.

Fractions to Decimals to Percents Worksheet

Fractions	Decimals	Percents
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		

Fractions to Decimals to Percents Worksheet

Fractions	Decimals	Percents
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		

1 $1/5$	10 $3/4$
2 $7/8$	11 $5/6$
3 $3/10$	12 $5/8$
4 $1/6$	13 $3/8$
5 $1/2$	14 $1/10$
6 $2/3$	15 $7/10$
7 $1/4$	16 $4/5$
8 $1/3$	17 $2/5$
9 $1/8$	18 $3/5$

J. 0.20	H. 0.75
L. 0.875	C. 0.8333
I. 0.3	Q. 0.625
R. 0.16666	G. 0.375
F. 0.5	P. 0.1
O. 0.6666	A. 0.7
K. 0.25	B. 0.8
N. 0.3333	E. 0.4
D. 0.125	M. 0.6

h. 20%	d. 75%
q. $87.5\% = 87\frac{1}{2}\%$	n. $83.\overline{33}\% = 83\frac{1}{3}\%$
b. 30%	r. $62.5\% = 62\frac{1}{2}\%$
m. $16.\overline{66}\% = 16\frac{2}{3}\%$	e. $37.5\% = 37\frac{1}{2}\%$
f. 50%	k. 10%
i. $66.\overline{66}\% = 66\frac{2}{3}\%$	o. 70%
p. 25%	g. 80%
l. $33.\overline{33}\% = 33\frac{1}{3}\%$	a. 40%
c. $12.5\% = 12\frac{1}{2}\%$	j. 60%

Percent Problems

MatchingMania

- 1 Percent ProblemsMatchingMania consists of the problem, the equation written from the problem and the answer. Students will then match the problem with the answer and its setup.
- 2 The worksheet, problem, answer and appropriate set up are listed below:
 - page 1** Worksheet
 - page 2** The percent problem
 - page 3** The percent problem set up
 - page 4** The answer to the percent problem
- 3 Divide the students into groups of 2. Then hand each group 2 worksheets and a bag of Percent Problem MatchingMania cards. Students work as a pair matching the appropriate solutions to each problem, but will individually fill out their own worksheets.
- 4 When the students complete this activity, they return the MatchingMania cards back to the plastic storage bag and hand the worksheets to the teacher.

Percent Problems MatchingMania

	Set up	Answer
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		

Percent Problems MatchingMania

	Set up	Answer
1		
2		
3		
4		
5		
6		
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1. 35% of 250 is what?	11. what % of 300 is 180?
2. 25% of what number is 35	12. 40% of what number is 30?
3. what % of 300 is 60?	13. 15% of 48 is what?
4. 25% of 200 is what?	14. what % of 250 is 80?
5. what % of 150 is 45?	15. 55% of what number is 90?
6. 20% of what number is 60	16. 12% of 75 is what?
7. 40% of 120 is what?	17. what % of 80 is 200?
8. what % of 140 is 35?	18. 38% of 200 is what number?
9. 60% of what number is 21?	19. 24% of what number is 40?
10 55% of 80 is what?	20. what % of 160 is 35?

A. $\underline{\hspace{1cm}}\% \times 150 = 45$	T. $.24 \times \underline{\hspace{1cm}} = 40$
B. $.12 \times 75 = \underline{\hspace{1cm}}$	S. $.25 \times \underline{\hspace{1cm}} = 35$
C. $.25 \times \underline{\hspace{1cm}} = 60$	R. $\underline{\hspace{1cm}}\% \times 140 = 35$
D. $.55 \times 80 = \underline{\hspace{1cm}}$	Q. $\underline{\hspace{1cm}}\% \times 160 = 35$
E. $.38 \times 200 = \underline{\hspace{1cm}}$	P. $\underline{\hspace{1cm}}\% \times 250 = 80$
F. $.35 \times 250 = \underline{\hspace{1cm}}$	O. $\underline{\hspace{1cm}}\% \times 300 = 60$
G. $.15 \times 48 = \underline{\hspace{1cm}}$	N. $.55 \times \underline{\hspace{1cm}} = 90$
H. $\underline{\hspace{1cm}}\% \times 300 = 180$	M. $.60 \times \underline{\hspace{1cm}} = 21$
I. $.40 \times 120 = \underline{\hspace{1cm}}$	L. $.25 \times 200 = \underline{\hspace{1cm}}$
J. $\underline{\hspace{1cm}}\% \times 80 = 200$	K. $.40 \times \underline{\hspace{1cm}} = 30$

Percent Problems

MatchingMania

- 1 Percent ProblemsMatchingMania consists of the problem, the equation written from the problem and the answer. Students will then match the problem with the answer and its setup.
- 2 The worksheet, problem, answer and appropriate set up are listed below:
 - page 1** Worksheet
 - page 2** The percent problem
 - page 3** The percent problem set up
 - page 4** The answer to the percent problem
- 3 Divide the students into groups of 2. Then hand each group 2 worksheets and a bag of Percent Problem MatchingMania cards. Students work as a pair matching the appropriate solutions to each problem, but will individually fill out their own worksheets.
- 4 When the students complete this activity, they return the MatchingMania cards back to the plastic storage bag and hand the worksheets to the teacher.

Percent Problems MatchingMania

	Set up	Answer
1		
2		
3		
4		
5		
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Percent Problems MatchingMania

	Set up	Answer
1		
2		
3		
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1. 35% of 250 is what?	11. what % of 300 is 180?
2. 25% of what number is 35	12. 40% of what number is 30?
3. what % of 300 is 60?	13. 15% of 48 is what?
4. 25% of 200 is what?	14. what % of 250 is 80?
5. what % of 150 is 45?	15. 55% of what number is 90?
6. 20% of what number is 60	16. 12% of 75 is what?
7. 40% of 120 is what?	17. what % of 80 is 200?
8. what % of 140 is 35?	18. 38% of 200 is what number?
9. 60% of what number is 21?	19. 24% of what number is 40?
10 55% of 80 is what?	20. what % of 159 is 35?

A. $\underline{\hspace{1cm}}\% \times 150 = 45$	T. $.24 \times \underline{\hspace{1cm}} = 40$
B. $.12 \times 75 = \underline{\hspace{1cm}}$	S. $.25 \times \underline{\hspace{1cm}} = 35$
C. $.20 \times \underline{\hspace{1cm}} = 60$	R. $\underline{\hspace{1cm}}\% \times 140 = 35$
D. $.55 \times 80 = \underline{\hspace{1cm}}$	Q. $\underline{\hspace{1cm}}\% \times 159 = 35$
E. $.38 \times 200 = \underline{\hspace{1cm}}$	P. $\underline{\hspace{1cm}}\% \times 250 = 80$
F. $.35 \times 250 = \underline{\hspace{1cm}}$	O. $\underline{\hspace{1cm}}\% \times 300 = 60$
G. $.15 \times 48 = \underline{\hspace{1cm}}$	N. $.55 \times \underline{\hspace{1cm}} = 90$
H. $\underline{\hspace{1cm}}\% \times 300 = 180$	M. $.60 \times \underline{\hspace{1cm}} = 21$
I. $.40 \times 120 = \underline{\hspace{1cm}}$	L. $.25 \times 200 = \underline{\hspace{1cm}}$
J. $\underline{\hspace{1cm}}\% \times 80 = 200$	K. $.40 \times \underline{\hspace{1cm}} = 30$

a. 75	t. 32%
b. 9	s. 300
c. 60%	r. 166.6
d. 35	q. 140
e. 30%	p. 76
f. 250%	o. 163.6
g. 50	n. 20%
h. 7.2	m. 48
i. 44	l. 87.5
j. 25%	k. 22%

Real World Percents

MatchingMania

- 1 Real World Percents consists of 10 real world story problems involving percents and percent of change. Students choose the appropriate equations needed to solve each percent problem and then find the answer.
- 2 The worksheet, story problems, equations needed and the solutions are listed below:
 - page 1** Worksheet
 - page 2** Real world story problems
 - page 3** Equations needed to solve the story problems
 - page 4** The solution to the story problem
- 3 Divide the students into groups of 2. Then hand each group 2 worksheets and a bag of Real World Percents MatchingMania cards. Students work as a pair matching the appropriate solutions to each problem, but will individually fill out their own worksheets.
- 4 When the students complete this activity, they return the MatchingMania cards back to the plastic storage bag and hand the worksheets in to the teacher.

Real World Percents MatchingMania

	equations	answer
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

Real World Percents MatchingMania

	equations	answer
1		
2		
3		
4		
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7		
8		
9		
10		

<p>1.</p> <p>Suzy found a dress on sale. The dress originally cost \$40, but is 40% off. Find the new price for the dress.</p>	<p>10.</p> <p>The book cost the store \$15 but has been increased in price by 20%. Find the new cost of the book.</p>
<p>2.</p> <p>The price of the tent is \$250. Bill has to pay 10.5% in sales tax. Find the total price of the tent.</p>	<p>9.</p> <p>Sally bought a dress for \$60. It was originally priced at \$80. Find the percent markdown on the dress.</p>
<p>3.</p> <p>Suzy bought a shirt for \$32 and then marked it up 10% and sold it to a classmate. Find the price she received for the shirt.</p>	<p>8.</p> <p>Fred's TV cost him \$600 on the internet. He had to pay 12% shipping costs. Find the total price of the TV.</p>
<p>4.</p> <p>Martha found a dress that cost \$350. But she then found it for 25% less on the internet. Find the new cost of the dress.</p>	<p>7.</p> <p>Max found a shirt that was marked down 40% and was priced at \$21.00. Find the original price of the shirt.</p>
<p>5.</p> <p>Bill bought a dishwasher on sale for \$450. It was marked down 30%. Find the original cost of the dishwasher.</p>	<p>6.</p> <p>Brad found a model car on sale for \$90. It was originally priced \$150. Find the percent off.</p>

a. $A\% \times 80 = P$	t. $12\% \times 600 = P$
b. $\$32 + P = C$	s. $40\% \times \$40 = P$
c. $20\% \times \$15 = P$	r. $\$150 - \$90 = C$
d. $A\% \times P = \$21$	q. $25\% \times \$350 = P$
e. $A\% \times P = \$450$	p. $15 + P = C$
f. $A\% \times 150 = C$	o. $\$80 - P = \60
g. $10.5\% \times \$250 = P$	n. $\$40 - P = C$
h. $\$600 + P = C$	m. $250 + P = C$
i. $10\% \times \$32 = P$	l. $100\% - 40\% = A\%$
j. $\$350 - P = C$	k. $100\% - 30\% = A\%$

Z. \$35.20	Q. \$18
Y. \$24.00	R. \$642.86
X. \$262.50	S. 25%
W. 40%	T. \$672
V. \$276.25	U. \$35

Integers Operations1

MatchingMania

- 1 Integer Operations1 consists of 20 pairs of integers. Each pair of integers is then used to find the sum, difference and product.
- 2 The worksheet, integers and the appropriate forms of the answer are listed below:
 - page 1** **Worksheet**
 - page 2** **The pairs of integers**
 - page 3** **The sum of the two integers**
 - page 4** **The difference of the two integers**
- 3 Divide the students into groups of 2. Then hand each group 2 worksheets and a bag of Integer Operations1 MatchingMania cards. Students work as a pair matching the appropriate solutions to each problem, but will individually fill out their own worksheets.
- 4 When the students complete this activity, they return the MatchingMania cards back to the plastic storage bag and hand the worksheets in to the teacher.

Integer Operations1

MatchingMania

	sum	difference
1		
2		
3		
4		
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Integer Operations1

MatchingMania

	sum	difference
1		
2		
3		
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20		

1. 36 -39	11. -6 0
2. -37 -25	12. 17 -36
3. -34 -43	13. 15 -44
4. 17 -42	14. 20 35
5. 25 -11	15. -39 -37
6. 45 12	16. 10 5
7. -1 -1	17. 51 -35
8. 10 -9	18. -9 -19
9. 50 -28	19. -34 20
10 11 -39	20. -48 -43

a. sum = -77	t. sum = -25
b. sum = -62	s. sum = -28
c. sum = -76	r. sum = -14
d. sum = 22	q. sum = -3
e. sum = 15	p. sum = 1
f. sum = 57	o. sum = -6
g. sum = 55	n. sum = -29
h. sum = -28	m. sum = -19
i. sum = 16	l. sum = 14
j. sum = -2	k. sum = -91

A. difference= -54	T. difference= 59
B. difference= 53	S. difference= 19
C. difference= 10	R. difference= 78
D. difference= -15	Q. difference= 0
E. difference= -6	P. difference= 33
F. difference= 50	O. difference= 75
G. difference= 5	N. difference= -12
H. difference= -5	M. difference= 9
I. difference= 59	L. difference= 36
J. difference= -2	K. difference= 86

Integers Operations2

MatchingMania

- 1 Integer Operations2 consists of 20 pairs of integers. Each pair of integers is then used to find the sum, difference and product.
- 2 The worksheet, integers and the appropriate forms of the answer are listed below:
 - page 1** **Worksheet**
 - page 2** **The pairs of integers**
 - page 3** **The sum of the two integers**
 - page 4** **The difference of the two integers**
- 3 Divide the students into groups of 2. Then hand each group 2 worksheets and a bag of Integer Operations2 MatchingMania cards. Students work as a pair matching the appropriate solutions to each problem, but will individually fill out their own worksheets.
- 4 When the students complete this activity, they return the MatchingMania cards back to the plastic storage bag and hand the worksheets in to the teacher.

Integer Operations2

MatchingMania

	sum	difference
1		
2		
3		
4		
5		
6		
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8		
9		
10		
11		
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19		
20		

Integer Operations2

MatchingMania

	sum	difference
1		
2		
3		
4		
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6		
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8		
9		
10		
11		
12		
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14		
15		
16		
17		
18		
19		
20		

1. -31 -2	11. -83 4
2. -57 -16	12. -89 -38
3. -80 -40	13. -37 -75
4. -3 -8	14. -24 -44
5. -97 -66	15. -84 3
6. -9 -22	16. -69 -23
7. -45 -15	17. -51 -48
8. -66 -35	18. 7 -79
9. -86 -82	19. -58 -25
10 -40 -72	20. -48 -81

a. sum = -127	t. sum = -99
b. sum = -83	s. sum = -81
c. sum = -79	r. sum = -168
d. sum = -101	q. sum = -112
e. sum = -112	p. sum = -120
f. sum = -68	o. sum = -73
g. sum = -129	n. sum = -92
h. sum = -72	m. sum = -33
i. sum = -163	l. sum = -31
j. sum = -60	k. sum = -11

A. difference= 13	T. difference= 38
B. difference= -51	S. difference= 20
C. difference= -87	R. difference= -33
D. difference= -31	Q. difference= -87
E. difference= -4	P. difference= -41
F. difference= -29	O. difference= -46
G. difference= 5	N. difference= 86
H. difference= 32	M. difference= 33
I. difference= -3	L. difference= -30
J. difference= -31	K. difference= -40

Scientific Notation1

MatchingMania

- 1 In Scientific Notation1 MatchingMania, students are given numbers greater than 1 and are asked to rewrite the numbers in scientific notation.
- 2 The worksheet, numbers and the answer in scientific notation are listed below:
page 1 Worksheet
page 2 The numbers greater than 1
page 3 The numbers in scientific notation
- 3 Divide the students into groups of 2. Then hand each group 2 worksheets and a bag of Scientific Notation1 MatchingMania cards. Students work as a pair matching the appropriate solutions to each problem, but will individually fill out their own worksheets.
- 4 When the students complete this activity, they return the MatchingMania cards back to the plastic storage bag and hand the worksheets to the teacher.

Scientific Notation1

MatchingMania

	Sci. Not.
1	
2	
3	
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Scientific Notation1

MatchingMania

	Sci. Not.
1	
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1. 6,000,000	11. 207
2. 270	12. 600
3. 13,400,000	13. 13.4
4. 2,070,000	14. 27,000
5. 134,000	15. 5.5
6. 270,000	16. 6,000
7. 2070	17. 55,000,000
8. 60,000	18. 134
9. 55,000	19. 2.07
10 1340	20. 27,000,000

a. 1.34×10^3	t. 1.34×10^5
b. 2.07×10^2	s. 6×10^4
c. 2.07×10^3	r. 6×10^3
d. 5.5×10^4	q. 2.7×10^5
e. 2.7×10^7	p. 1.34×10^2
f. 6×10^6	o. 2.7×10^0
g. 1.34×10^1	n. 2.7×10^4
h. 5.5×10^0	m. 2.07×10^5
i. 1.34×10^7	l. 6×10^2
j. 5.5×10^7	k. 2.07×10^6

Scientific Notation2

MatchingMania

- 1 In Scientific Notation2 MatchingMania, students are given decimal numbers and are asked to rewrite the numbers in scientific notation.
- 2 The worksheet, decimals, and the answer in scientific notation are listed below:
page 1 Worksheet
page 2 The decimals
page 3 The numbers in scientific notation
- 3 Divide the students into groups of 2. Then hand each group 2 worksheets and a bag of Scientific Notation2 MatchingMania cards. Students work as a pair matching the appropriate solutions to each problem, but will individually fill out their own worksheets.
- 4 When the students complete this activity, they return the MatchingMania cards back to the plastic storage bag and hand the worksheets to the teacher.

Scientific Notation2

MatchingMania

	Sci. Not.
1	
2	
3	
4	
5	
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10	
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12	
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15	
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Scientific Notation2

MatchingMania

	Sci. Not.
1	
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16	
17	
18	
19	
20	

1. 2.1×10^{-3}	11. 7×10^{-8}
2. 5.4×10^{-1}	12. 5.4×10^{-5}
3. 2.1×10^{-4}	13. 2.1×10^{-1}
4. 1.04×10^{-4}	14. 1.2×10^{-5}
5. 2.1×10^{-6}	15. 7×10^{-3}
6. 1.04×10^{-6}	16. 1.2×10^{-4}
7. 1.04×10^{-3}	17. 1.2×10^{-3}
8. 7×10^{-1}	18. 5.4×10^0
9. 7×10^{-7}	19. 1.04×10^{-1}
10 7×10^{-5}	20. 5.4×10^{-3}

a. .000054	t. .00021
b. .0000021	s. .00104
c. .0012	r. .00012
d. .7	q. .0054
e. .104	p. .000104
f. .0021	o. .00007
g. .0000012	n. .21
h. .54	m. .007
i. .0000007	l. .00000104
j. .00000007	k. 5.4

Scientific Notation3

MatchingMania

- 1 In Scientific Notation3 MatchingMania, students are given numbers in scientific notation form and translate each into appropriate decimal or whole number form.
- 2 The worksheet, the numbers in scientific notation and the numbers in decimal form are listed below:
 - page 1 Worksheet**
 - page 2 The numbers in scientific notation**
 - page 3 The answers in decimal form**
- 3 Divide the students into groups of 2. Then hand each group 2 worksheets and a bag of Scientific Notation3 MatchingMania cards. Students work as a pair matching the appropriate solutions to each problem, but will individually fill out their own worksheets.
- 4 When the students complete this activity, they return the MatchingMania cards back to the plastic storage bag and hand the worksheets to the teacher.

Scientific Notation3

MatchingMania

	Answer
1	
2	
3	
4	
5	
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Scientific Notation3

MatchingMania

	Answer
1	
2	
3	
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10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	

1. 5.6×10^2	11. 6×10^3
2. 3.01×10^2	12. 5.6×10^0
3. 3.01×10^{-4}	13. 3.01×10^{-1}
4. 6×10^{-7}	14. 5.6×10^{-4}
5. 1.4×10^2	15. 1.4×10^{-6}
6. 5.6×10^5	16. 1.4×10^6
7. 3.01×10^4	17. 1.4×10^{-4}
8. 6×10^1	18. 5.6×10^6
9. 3.01×10^{-6}	19. 1.4×10^3
10 5.6×10^{-3}	20. 6×10^{-3}

a. 1,400,000	t. 301
b. 560	s. 0.0000014
c. 0.0000006	r. 60
d. .301	q. 5.6
e. 560,000	p. 0.000301
f. 1400	o. 0.006
g. 6000	n. 140
h. 0.0056	m. 5,600,000
i. 30,100	l. 0.00000301
j. 0.00014	k. 0.00056

ANSWERS

Whole Number Operations1

Answers

	sum	diff	prod
1	a	N	m
2	t	S	i
3	d	J	g
4	b	M	o
5	m	O	p
6	g	C	s
7	s	K	q
8	c	H	x
9	h	B	n
10	k	L	r
11	f	E	w
12	p	R	t
13	o	G	v
14	q	A	u
15	i	F	y
16	n	Q	j
17	l	l	l
18	j	P	h
19	e	D	z
20	r	T	k

Decimal Operations1

MatchingMania

	sum	diff	prod
1	j	B	p
2	r	P	v
3	f	M	j
4	m	l	y
5	b	T	w
6	l	S	q
7	g	C	t
8	o	Q	u
9	c	F	r
10	k	H	z
11	e	G	g
12	s	O	x
13	d	N	s
14	i	K	m
15	q	A	l
16	p	R	i
17	h	J	o
18	t	D	k
19	a	L	h
20	n	E	n

Decimal Operations2

MatchingMania

	sum	diff	prod
1	o	B	q
2	m	A	z
3	t	T	w
4	p	F	h
5	r	H	s
6	b	M	v
7	j	P	p
8	e	J	u
9	k	G	k
10	g	R	j
11	f	N	g
12	a	K	m
13	d	E	i
14	h	L	r
15	s	S	n
16	l	Q	y
17	n	O	l
18	q	l	t
19	c	D	x
20	i	C	o

Operations with Fractions

MatchingMania

Fractions	Sum	Difference	Product
1	A	L	e
2	K	F	l
3	O	D	m
4	M	N	k
5	L	A	a
6	B	G	f
7	C	M	n
8	D	H	o
9	Q	R	j
10	P	K	b
11	G	B	c
12	E	E	g
13	R	P	p
14	F	O	h
15	H	C	i
16	N	Q	d

Operations with Fractions2

MatchingMania

Fractions	LCD	Sum	Diff.	Prod	Quot.
1	c	G	A	i	d
2	d	O	C	o	m
3	g	N	O	b	n
4	b	D	B	a	e
5	c	C	D	m	a
6	b	P	P	c	o
7	f	Q	M	f	j
8	c	F	N	k	k
9	b	R	Q	p	b
10	g	L	E	l	g
11	b	H	G	d	p
12	e	E	H	e	h
13	e	M	R	n	f
14	e	K	F	j	l
15	f	A	K	g	i
16	f	B	L	h	c

Fractions to Decimals to Percents

MatchingMania

Fractions	Decimals	Percents
1	J	h
2	L	q
3	I	b
4	R	m
5	F	f
6	O	i
7	K	p
8	N	l
9	D	c
10	H	d
11	C	n
12	Q	r
13	G	e
14	P	k
15	A	o
16	B	g
17	E	a
18	M	j

Percent Problems

Answers

	Set up	Answer
1	F	l
2	C	q
3	O	n
4	L	g
5	A	e
6	C	s
7	I	m
8	R	j
9	M	d
10	D	i
11	H	c
12	K	a
13	G	h
14	P	t
15	N	o
16	B	b
17	J	f
18	E	p
19	T	r
20	Q	k

Real World Percents

MatchingMania

	equations	answer
1	s	Y
2	g	V
3	i	Z
4	q	X
5	k	R
6	r	W
7	l	U
8	t	T
9	a	S
10	c	Q

Integer Operations1
MatchingMania

	sum	difference
1	g	O
2	b	N
3	a	M
4	t	I
5	l	L
6	f	P
7	j	Q
8	p	S
9	d	R
10	s	F
11	o	E
12	m	B
13	n	T
14	g	D
15	c	J
16	e	G
17	i	K
18	h	C
19	r	A
20	k	H

Integer Operations2
MatchingMania

	sum	difference
1	n	D
2	d	L
3	o	N
4	c	H
5	k	E
6	l	T
7	i	P
8	p	S
9	r	I
10	f	Q
11	h	O
12	m	K
13	b	R
14	s	C
15	a	A
16	j	M
17	q	G
18	t	B
19	e	J
20	g	F

Scientific Notation1
MatchingMania

	Sci. Not.
1	f
2	m
3	i
4	k
5	t
6	q
7	c
8	s
9	d
10	a
11	b
12	l
13	g
14	n
15	h
16	r
17	j
18	p
19	o
20	e

Scientific Notation2

MatchingMania

	Expanded
1	f
2	h
3	t
4	p
5	b
6	l
7	s
8	d
9	i
10	o
11	j
12	a
13	n
14	g
15	m
16	r
17	c
18	k
19	e
20	q

Scientific Notation3

MatchingMania

	Answer
1	b
2	t
3	p
4	c
5	n
6	e
7	i
8	r
9	l
10	h
11	g
12	q
13	d
14	k
15	s
16	a
17	j
18	m
19	f
20	o

About the author

Melisa Rice has been an Oklahoma high school teacher for over 30 years. Throughout her career, she has served on numerous committees at both the local and state level to help improve the teaching of mathematics in Oklahoma.

She is a local staff development trainer, and has presented numerous workshops on mathematics teaching at school districts across the state.

She is a National Board Certified Teacher in Early Adolescent Mathematics, was selected as a teacher-of-the-year finalist for the State of Oklahoma in 2005 and was the 1996 Oklahoma Presidential Award for Excellence in Mathematics winner.

She and her husband, Chris, reside in Tecumseh, where Melisa is currently teaching mathematics at Shawnee High School.



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