

Fractions, Decimals, and Percents

Questions

Fill in the table with the converted decimal, fraction, and percent

Fraction	Decimal	Percent
100/1000	0.1	10.0%
200/1000	0.2	20.0%
3/10	0.300	30 %
400/1000	0.4	40.0%
500/1000	0.5	50 %
3/5	0.6	60.0%
7/10	0.700	70 %
4/5	0.800	80 %
900/1000	.9	90 %
1/1	1.000	100.0%

Part 2

Answer the word problems below

- 1) Cole played in a doubles tennis match with Lilly. Cole scored 46% of the points. What percentage of the points did Lilly score?

$$100 - 46 = 54$$

Lily scored 54% of the points



- 2) Leon won a chili cooking competition. He received 150 of the 200 first place votes. What percentage of first place votes did Leon get?

he received 75% of all the first place votes



- 3) Samantha finished 90% percent of the triathlon she competed in. Write what fraction of the race she completed in its simplest form.

she completed 9/10 of the triathlon



Name: _____

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Curriculum Connection
B1.4**Class List - Decimal, Fraction, Percent**

Mrs. Hansen just finished marking a math test. Her class list with the results of the test are below. She has simplified some of the fractions, and some students wrote a different test, meaning they are out of a different total.

Grades
 A = 80% and up
 B = 70% - 79%
 C = 60% - 69%
 D = 50% - 59%
 F = 49% or less

Questions

Fill in the class list

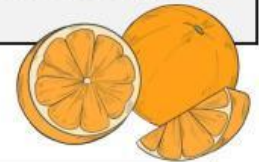


Student Name	Mark	Decimal	Percent	Grade
Madison	3.5/4	.875	87.5%	A
River	62.5/100	0.625	62.5%	C
Parker	9.5/10	.95	95%	A
Zara	14/20	.7	70%	B
Lorenzo	1/2	.5	50%	D
Damian	1/7	0.142	14.2%	F
Matteo	5/5	1	100%	A
Everly	2/5	.4	40%	F
Evan	79.5/100	.795	79.5%	B+
Skylar	93.5/100	.935	93.5%	A
Luka	9.5/12	.791	79.1	B+
Josie	2.5/9	0.277	27.7%	F
Cora	2/10	.2	20%	
Kaylee	3.5/5	.7	70%	B
Savannah	75	75	7500	A+++++

Percents Greater Than 100

Percentages are out of 100. In other words, 100% is 100/100. In some cases, it may be impossible to get over 100%. For example, you can't watch TV more than 100% of your time. This is impossible because 100% is all the time you have.

On the other hand, it is very possible to have percentages over 100%. For example, you may get 100% of the vitamin C you need from eating an orange. But suppose you ate 3 oranges. You would receive 300% of the vitamin C you need for the day.



Part 1

Fill in the table using fractions out of 100

Fraction	Decimal	Percent
105/100	1.05	105.0%
150/100	1.5	150%
200/100	2.00	200%
400/100	4	400.0%
510/100	510/100	510%
702/100	7.02	702%
900.5/100	9.05	905%

Part 2

Fill in the table using fractions out of 1000

Fraction	Decimal	Percent
2005/1000	2.005	200.5%
3010/1000	3.01	301%
33582/1000	33.582	3358.2%
4486/1000	44.86	4486%
672/100	6.72	672.3%
808/100	8.08	808%
10500/1000	105	10500%

Percents Greater Than 100

Situations can be described as over 100% when we can define what 100 means. For example, an athlete can give more than 100% when we define 100% as how much effort they can give for an entire game. There may be times during the game where the athlete can give 110% when they can rest at 90% during another time.

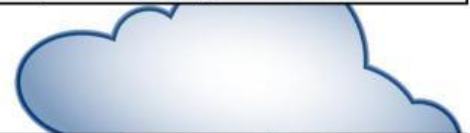
Part 1

Write your own scenarios that would result in over 100%

	Scenario Using More Than 100%
Ex.1	Rob scored 10 points and I scored 20. I scored 200% more points than Rob.
Ex.2	There was 300% more rainfall in April as there was in March.
1)	there was a 400% increase in sunny days in november
2)	john got 350% more cash this year that the last year
3)	eman got 762% more fruits in a game called blox fruits
4)	nyle brought 400% more books today than yesterday
5)	Dune got 5.82e56% more money that yesterday

Part 2

Does the scenario make sense?

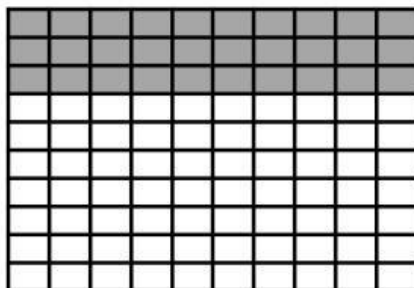


	Scenario	Yes or No
1)	My workday is 8 hours. I worked 120% of a workday today.	yes
2)	120% of the world's population has been sick at least once	false
3)	125% of the sky is covered in clouds	false
4)	My investment of \$100 has grown 300%!	yes
5)	There was one birthday cake, and I ate 150% of it!	no
6)	The teacher marked 110% of the tests she received.	yes
7)	You got 110% on a test because you answered the bonus question	yes
8)	You sold 20 drinks in the morning and 200% more in the afternoon	yes

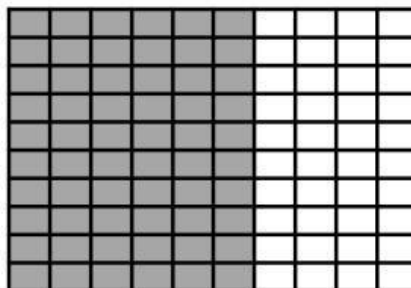
Fractions, Decimals, and Percents

Questions

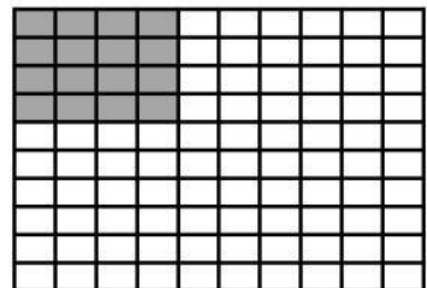
What fraction, decimal and percent of the array is shaded in?



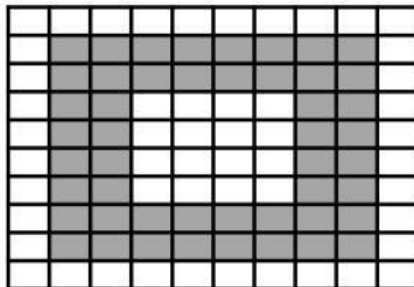
Fraction	$\frac{30}{100}$
Decimal	0.3
Percent	30%



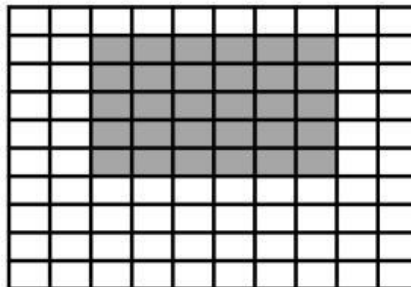
Fraction	$\frac{3}{5}$
Decimal	0.6
Percent	60%



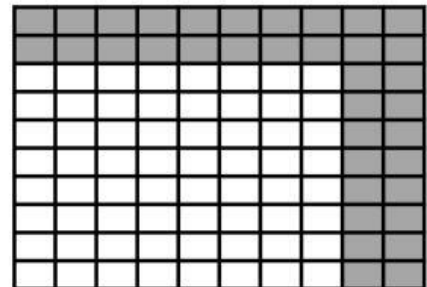
Fraction	$\frac{16}{100}$
Decimal	0.16
Percent	16%



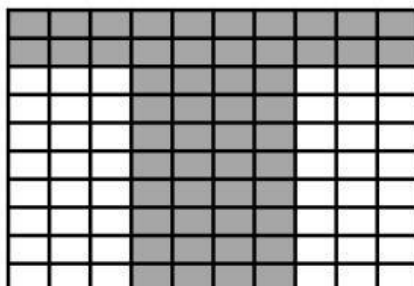
Fraction	$\frac{48}{100}$
Decimal	.48
Percent	48%



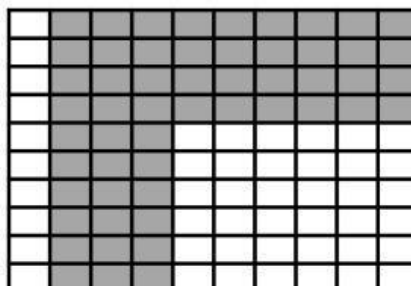
Fraction	$\frac{30}{100}$
Decimal	.3
Percent	30%



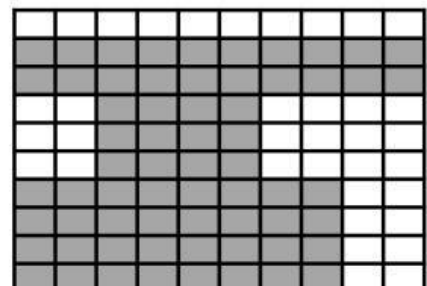
Fraction	$\frac{36}{100}$
Decimal	.36
Percent	36%



Fraction	$\frac{52}{100}$
Decimal	.52
Percent	52%



Fraction	$\frac{48}{100}$
Decimal	.48
Percent	48%

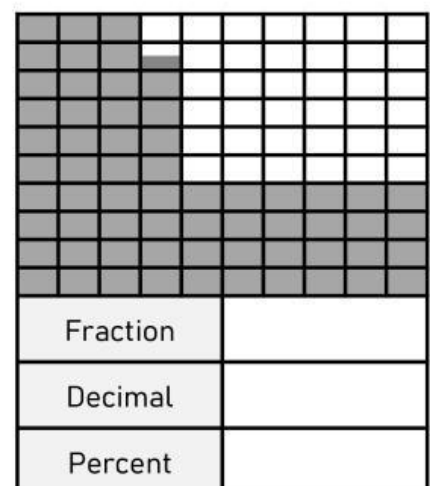
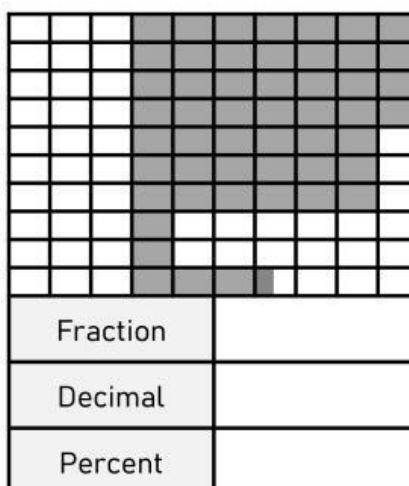
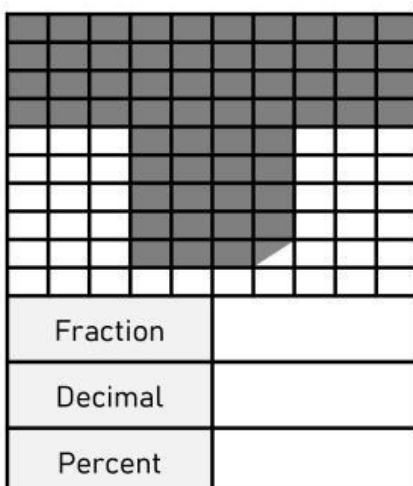
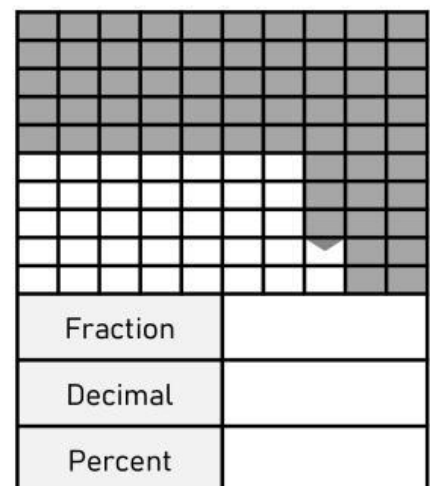
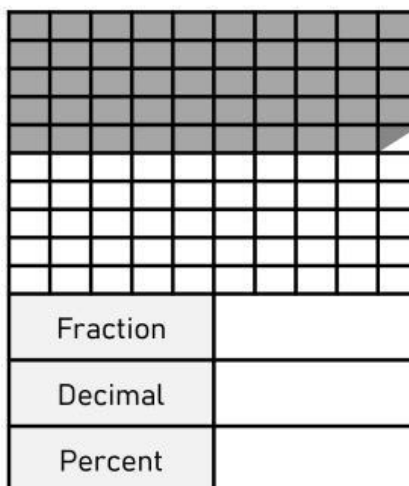
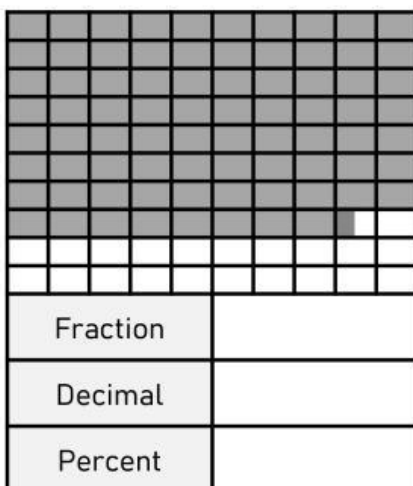
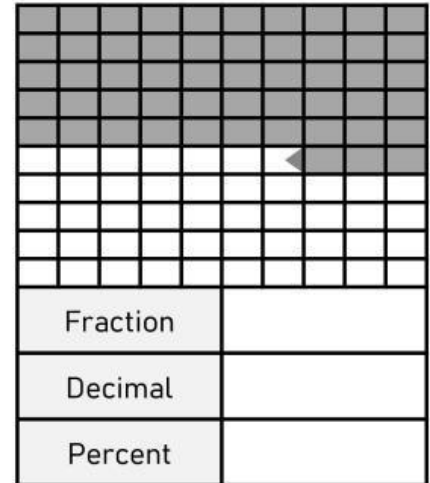
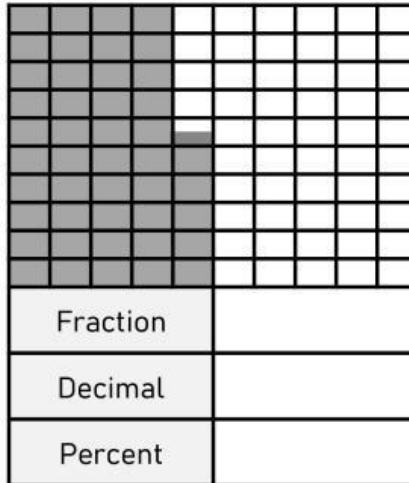
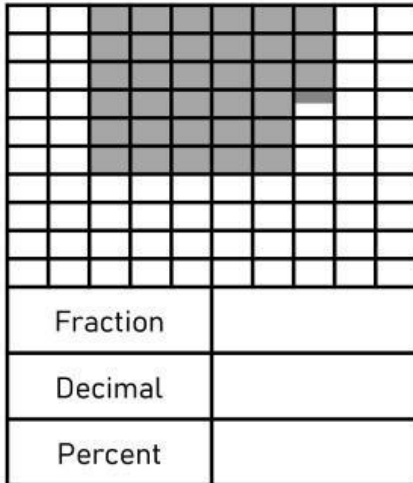


Fraction	$\frac{56}{100}$
Decimal	.56
Percent	56%

Fractions, Decimals, and Percents

Questions

What fraction, decimal and percent of the array is shaded in?



Name: _____

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Curriculum Connection
B1.4

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Shade in the amount based on the fraction, decimal, or percent given

