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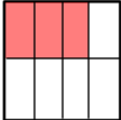
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Math 8 Section 3.1 What are Percentages?

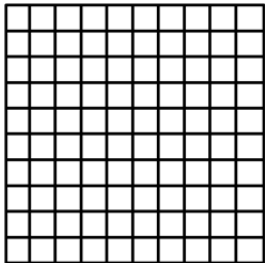
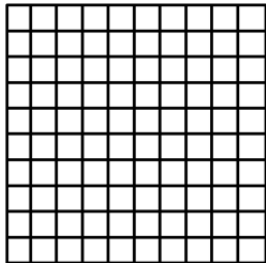
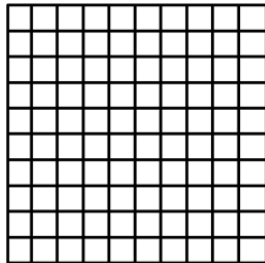
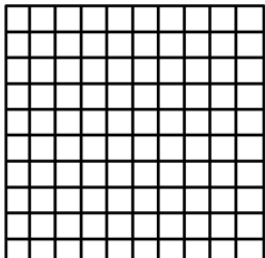
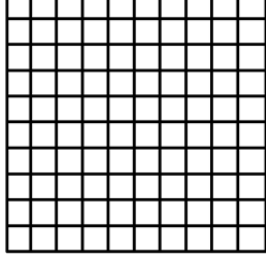
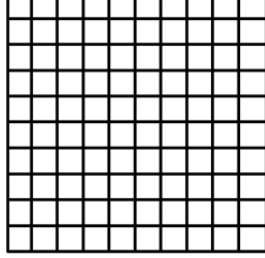
1. Given each of the following diagrams, find the corresponding percentages:

<p>a)</p> 	<p>b)</p> 	<p>c)</p> 
<p>d)</p> 	<p>e)</p> 	<p>f)</p> 

2. Complete the following table by converting the fraction as a percentage:

Fraction	Percentage	Decimal Form:	Area Model:
$\frac{13}{25}$			
$\frac{7}{20}$			
	55%		
		0.035	
			

3. Given each of the following percentages, draw it on the grid provided:

<p>a) 15.25%</p> 	<p>b) 22.5%</p> 	<p>c) 80.125%</p> 
<p>d) $60\frac{1}{3}\%$</p> 	<p>e) 12.2%</p> 	<p>f) 54.875%</p> 

4. Brian weighs 150lbs and the total mass of all his muscles is 70lbs. What percentage of his body weight are muscles?

5. Sara needs to drive 230km to get to Seattle. If she drove 150km, what percentage of the distance has she travelled?

6. Jack bought a dozen eggs at Superstore and 3 of them were broken. What percentages of the eggs are still good?

7. Angie has \$10 worth of pennies. If 33 of them are made in 1965, what percentage of them are 1965?

8. Mary has 120 friends on Facebook and Jerry has 75% as many friends as her. How many friends does Jerry have?

9. 15% of Katie's time in a day is spent studying, 20% exercising, 35% sleeping, 10% eating, and the rest of the time at school. How many hours are spent studying and going to school altogether?

10. Challenge: Amy wrote four tests and got the following scores: 85%, 83%, 92% and 72%. If he has one more test to write, what must he get to have an average of 86%?