Percent

1. Complete the following chart.

Percent Form	Fraction (lowest terms)	Decimal Form
5 %	$\frac{5}{100} = \frac{1}{20}$	0.05
38%		
0.04%		
127%		
	$\frac{7}{8}$	
	$\frac{9}{1000}$	
	$\frac{127}{100}$ or $1\frac{27}{100}$	
		3.4
		0.7
		0.0025

2. A suit marked at $129 in on sale at 20% off.
   Find the sale price of the suit before tax and the final cost including tax.

3. Jane invested $400 in Netflix when it was just becoming popular. She sold her shares at a 370% increase.
   Complete the statements:
   Jane started with $400 and ended up with $_____.

4. Convert the following to percents.

(a) 52 out of 60   (b) 113 out of 100

5. Vsauce is purchasing some hats for merchandizing. He can get the hats and have them stitched for a total cost of $5.40 each. If he wants to mark them up 150%, what should he charge before shipping and taxes?

6. Shannon picked out a pair of jeans to purchase that are marked $54.99. She has a coupon that gives her $10 off. She has a SPC card that gives her an additional 10% off the total cost before taxes. What will she pay for the jeans including 13% tax?

7. For Black Friday, a popular brand of smart phone is reduced by 70% for one day only, giving a sale price of $276. What is the regular price of the phone?

8. For Black Friday, a popular brand of smart phone is reduced by 60% for one day only, giving a sale price of $356. What is the regular price of the phone?

9. A Hallowe'en costume was reduced by 70% after Hallowe'en giving a sale price of $12. What was the original price of the costume?   (Ignore taxes)

10. A football jersey was reduced by 30% giving a sale price of $42. What was the original price of the jersey?   (Ignore taxes)

11. A sweater with original price $65 (before tax) is reduced by 60%. What is the sale price?

12. What is the total sale price of the sweater in question 11, including the 13% taxes?

13. A fundraising company sells the music department chocolate bars at $1.20 per bar. The music department sells the chocolate bars at a 67% increase. How much does the music department sell the chocolate bars for?

Answers:

Percent Form	Fraction (lowest terms)	Decimal Form
5 %	$\frac{5}{100} = \frac{1}{20}$	0.05
38%	$\frac{38}{100} = \frac{19}{50}$	0.38
0.04%	$\frac{0.04}{100} = \frac{4}{10000} = \frac{1}{2500}$	0.0004
200%	2	2
87.5	$\frac{7}{8}$	0.875
0.9	$\frac{9}{1000}$	0.009
127	$\frac{127}{100}$ or $1\frac{27}{100}$	1.27
340	$\frac{340}{100} = \frac{17}{5}$ or $3\frac{2}{5}$	3.4
70	$\frac{70}{100} = \frac{7}{10}$	0.7
0.25	$\frac{0.25}{100} = \frac{25}{10000} = \frac{1}{400}$	0.0025

2. $116.62   3. $1880.

4. (a) $86\frac{2}{3}$%   (b) 113% 5. $13.50 6. $45.75

7. $920.   8. $890   9. $40   10. $60

11. $26   12. $29.38   13. $2.00