

Day 13: Applying Percents

Lesson: Percents

Percent - is the number of parts per 100; the numerator of a fraction with a denominator of 100.

Write the following as fractions (in lowest terms)

Example 1: 13%	Example 2: 24%	Example 3: 125%
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Write each percent as a decimal

Example 4: 20%	Example 5: 2%	Example 6: 134%
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Percent Problems

'of' in math means to multiply

'out of' in math means to divide

Example 7: There were 25 apples. Molly took 20% of the apples home. How many apples did Molly take?	Example 8: Stephen spent 40% of his birthday money. He was given \$145. How much does he have left?
Example 9: Nadiya achieved 45 out of 60 on her math test. What is this as a percent?	Example 10: An outfit is \$34.95 and is on sale for 25% off. Taxes on this item are 13%. Calculate the total cost to purchase this item.

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Practice: Percent

1. Write each percent as a decimal a. 45% b. 67% c. 6% d. 1% e. 100% f. 150% g. 9.5% h. 0.5%	
2. Write each decimal as a percent a. 0.23 b. 0.56 c. 0.79 d. 0.05 e. 0.235 f. 1.2 g. 0.006 h. 0.01	
3. Write each fraction as a percent (to 1 d.p.) a. $\frac{20}{100}$ b. $\frac{23}{50}$ c. $\frac{3}{4}$ d. $\frac{4}{9}$ e. $\frac{4}{5}$ f. $\frac{1}{3}$ g. $2\frac{2}{3}$ h. $\frac{3}{8}$	
4. Evaluate: a. 20 % of 250 b. 5% of \$7.90 c. 8% of \$400 d. 13% of 50 000	
5. Express as a percent a. 6 out of 10 b. 37 out of 50 c. 15 out of 60 d. 8 out of 80	
6. Sonia has a picture that is 60cm long. She asked the photo shop to reduce the length by 30%. What will the new length be?	7. Yangyang got 64 hits in 91 times at bat. What percent of the time did she get a hit? (round to 1 d.p.)
8. A calculator has a price of \$260. The retailer first discounts 10% and then adds sales tax on 9%. Can we just do one calculation and discount 1%? Explain and show mathematical solution.	9. A dealer bought a used car for \$6000. He marked the price up by 50% from what he paid for it. When he couldn't sell the car at this price, he marked it down by 40%. The car was bought. Did he make or lose money? How much?
Answers: 1) 0.45; 0.67; 0.06; 0.01; 1.0; 1.5; 0.095; 0.005; 2) 23%; 56%; 79%; 5%; 23.5%; 120%; 0.6%; 1% 3) 20%; 46%; 75%; 44.4%; 80%; 33.3%; 266.7%; 37.5% 4) 50; \$0.40; \$32; 6500 5) 60%; 74%; 25%; 10% 6) 42cm long, 7) 70.3% 8) [1%disc=\$257.40] [10%dis+9%tax=\$255.06] They are not the same. You must do separately. 9) Loss of \$600	