

PARTNER CHECKS

PARTNER A

Name: _____

- 1) There are 225 students enrolled in 7th grade at Middleton Middle School. 216 students are at school today. What percent of the students are absent today?

$$225 - 216 = 9$$

$$\frac{9}{225} = \frac{x}{100}$$

$$225x = 900$$

$$x = 4\%$$

2. A coat with a selling price of \$127 is on sale for 35% off. Find the sale price. (Round to the nearest whole number)

$$\frac{x}{127} = \frac{35}{100}$$

$$100x = 4445$$

$$x = 44.45$$

$$127 - 44.45 = 82.55$$

$$x = 83$$

- 3) Joe sold 352 laptops at the computer store in May. In June, he sold 406 laptops. To the nearest tenth of a percent, by what percent did his sales increase?

$$406 - 352 = 54$$

$$\frac{54}{352} = \frac{x}{100}$$

$$352x = 5400$$

$$x = 15.3\%$$

PARTNER B

Name: _____

- 1) Bobby collected stamps and had 550 stamps in his collection in January. By March he had collected more stamps and had 572. What is the percent of change in Bobby's stamp collection?

$$\frac{572 - 500}{550} = \frac{x}{100}$$

$$550x = 2200$$

$$x = 4\%$$

- 2) Mrs. McLaughlin, Ms. Farrell, and Mrs. Gumas went out for dinner and spent \$67.66. The service was excellent and they left a 22% tip. What was their total bill, including the tip? (Round to nearest whole #)

$$\frac{x}{67.66} = \frac{22}{100}$$

$$100x = 1488.52$$

$$x = 14.89$$

$$67.66 + 14.89 = 82.55$$

$$x = 83$$

- 3) The biggest, squishiest squishy just became available. It costs \$21.84, but Mrs. Gumas has a 30% off coupon. YAY!! How much will the Squishy cost with the discount? (Round to nearest 10th)

$$\frac{x}{21.84} = \frac{30}{100}$$

$$100x = 655.20$$

$$x = 6.55$$

$$21.84 - 6.55 = 15.3$$

PERCENTS WITH A PARTNER

PARTNER A

4. A toy store has 57 dolls left in stock after selling 25% of them yesterday. How many dolls did the store sell yesterday?

$$\frac{57}{x} = \frac{75}{100}$$

$$5700 = 75x$$

$$x = 76$$

$$76 \div 57 = \boxed{1.35}$$

PARTNER B

- 4) The markup of a new water bottle is 25%. If the markup was \$4.75, what was the original cost of the water bottle before the markup?

$$\frac{4.75}{x} = \frac{25}{100}$$

$$475 = 25x$$

$$x = 19$$

5. The price of an item is \$4.80. With sales tax included, it will cost \$5.16. What is the sales tax rate?

$$\frac{36}{4.80} = \frac{x}{100}$$

$$36 = 4.80x$$

$$x = \boxed{7.5\%}$$

- 5) A blizzard came to town, causing all the schools to be closed for two days. The first day there were 18 inches of snow that fell and on the next day 19.35 inches fell. What was the percent of increase of snowfall from the first day to the second?

$$19.35 - 18 = 1.35$$

$$\frac{1.35}{18} = \frac{x}{100}$$

$$18x = 135$$

$$x = \boxed{7.5\%}$$

6. A \$50 video game bundle is marked up 28%. What is the new selling price of the games?

$$\frac{x}{50} = \frac{128}{100}$$

$$100x = 6400$$

$$x = \boxed{\$64}$$

- 6) The new snow blower originally cost \$1200, but with the big sale at Home Depot, the new cost was \$768. What was the percent of discount?

$$\frac{768}{1200} = \frac{x}{100}$$

$$76800 = 1200x$$

$$x = \boxed{64\%}$$

PERCENTS WITH A PARTNER

66" PARTNER A

7. Now, John is 5 feet 6 inches tall. A year ago, he was exactly 5 feet tall. By what percent has John grown?

$$66 - 60 = 6$$

$$60x = 600$$

$$\frac{6}{60} = \frac{x}{100}$$

$$x = 10\%$$

8. For every holiday gift basket Bella sells, she earns a 15% commission. She just sold a basket on which she earned \$10.17. What was the original price of this basket?

$$\frac{10.17}{x} = \frac{15}{100}$$

$$15x = 1017$$

$$x = 67.8\%$$

- 9) Mr. and Mrs. Per Cent found their favorite car! The price of the car is \$45000. They put a \$15,000 deposit down and will pay 6.2% interest on the remaining amount for 3 years. How much interest will they pay? (Round to the nearest thousand dollars)

$$I = PRT \quad 45000 - 15000 = 30,000$$

$$(30,000)(.062)(3)$$

$$\$5580 \approx \$6,000$$

PARTNER B

- 7) Tara read for two days in a row. On the second day she read 20 pages and she knows there was a 200% increase in the number of pages she read from the first day to the second day. How many pages did she read on the first day?

$$\frac{20}{x} = \frac{200}{100} \quad 200x = 2000$$

$$x = 10$$

- 8) The vacuum salesman was working on commission. He received 15% commission for every vacuum that he sold. He sold mom a \$452 vacuum. How much commission did he make?

$$\frac{x}{452} = \frac{15}{100}$$

$$100x = 6780$$

$$x = \$67.80$$

- 9) Mr. Thomas Blake decided to buy a used camper for \$32,000. He made a down payment of \$12,000. He borrowed the rest of the money with an interest rate of 6% for 5 years. How much interest will he pay for this loan? (Round to the nearest thousand dollars.)

$$I = PRT \quad (20,000)(.06)(5)$$

$$\$6,000$$

PERCENTS WITH A PARTNER

PARTNER A

10) Joanie miscalculated how much money she would need to buy a new bike. She thought it was \$129, but it was actually \$189. What was her percent error? (Round to nearest whole #)

$$189 - 129 = \frac{60}{129} = 31.7\% \quad \boxed{32\%}$$

11) Which of the following are equal?

- a) .667
- b) $\frac{1}{3} = .33$
- c) $\frac{2}{3} = .667$
- d) .05
- e) .02
- f) $66\frac{2}{3}\% = .67$

PARTNER B

10) Flora wants to buy a notebook that she thinks is \$6.74, but when she takes it up to the register it is only \$5.10. What was the percent error? Round to nearest whole percent.

$$6.74 - 5.10 = 1.64$$

$$\frac{1.64}{5.10} = \boxed{32\%}$$

11) Which of the following are equal?

- a) 530% 5.3
- b) 53% $.53$
- c) 5.3 5.3
- d) $5\frac{3}{100}$ 5.03
- e) 53 53
- f) $5\frac{3}{10}$ 5.3

12) Which of the following are equal?

- a) $\frac{1}{5} = .2$
- b) $20\% = .2$
- c) $.2 = .2$
- d) $\frac{2}{5} = .4$
- e) $200\% = 2$
- f) $.02 = .02$

13) Which of the following are equal?

- a) $6\frac{4}{5}$ 6.8
- b) 6.8 6.8
- c) 680% 6.8
- d) 68% $.68$
- e) .068 $.068$
- f) $6\frac{8}{100}$ 6.08