



**Jakarta  
International  
School**  
6<sup>th</sup> Grade  
**Practice Test 2 – Formative  
Decimals, Fractions, Percents.  
Black**

Name: \_\_\_\_\_

Score:  $\frac{\quad}{20}$

**Percents and Fractions.**

**1)** Convert to percents. (1pt each)

a.  $\frac{89}{99}$

b.  $\frac{3}{11}$

**Applications of fractions, percents and decimals.**

Write your answer in a sentence.

**2)** In a class of 50 students, 40% are girls. Girls (only) are added to the class until the percent of girls increases to 60%. How many girls were added to the class? (2pts)

**3)** Janet and two friends are moving into a new apartment together. They need to buy some furniture. Based on her income, Janet agrees to pay 30% of the cost of the dining room furniture, 25% of the cost of the television, and 65% of the cost of the washing machine.

The table below shows how much Janet pays for each item.

Dining Room Furniture	\$225
Television	\$99.75
Washing machine	\$390

Calculate the full cost of each item. (3pts)

**4)** A retailer bought 6 washing machines at the same cost price. He sold 2 of them at a 35% profit, 3 of them at a 20% profit and the last one at a 5% loss. If he received \$4350 altogether, how much did he pay for each washing machine? (3pts)

**5)** Last September, Mitchell's Car Yards were selling a brand new car for \$104000. Unfortunately it did not sell. In December, Mr. Mitchell (the boss) wanted to sell the car with a 10% discount, because he knew that he would still earn a 17% profit. Mrs. Mitchell (the other boss) said that she definitely wants the car sold before Christmas. She says the car can sell at a 30% discount and she will accept a loss. Find the loss that would be incurred if the car were to be sold at a 30% discount. (3pts)

**6)** Shopper's Paradise offers the following discount plan on items that remain on sale in the store for one week or more.

<b>Week</b>	<b>Discount</b>
1	10% off
2	15% off week 1 prices
3	20% off week 2 prices
4	25% off week 3 prices
5	50% off week 4 prices

What would be the cost of a suit regularly priced at \$160 that has been on sale at Shopper's Paradise for 3 weeks? (3pts)

**7)** European waiters and waitresses may be paid a higher base salary with no tips. In comparison, their American counterparts receive a lower base salary and receive a percent of the bill as a tip. If you were a waiter or waitress, would you prefer to work for tips or a higher base salary? Explain your reasoning.  
(2pts)

**8)** The Body Shop has two kinds of discount vouchers – 5% and 10%. If customers present both vouchers, they are allowed to have both discounts applied, one after the other.  
What would be the total percentage discount if both vouchers were used? (2pts)