PRE AP REVIEW

TEST 6 PERCENTS

1. Kayla, Kyle, Kirsten, and Kevin bought school supplies at a local discount store. The total amount of the bill, including tax, was $116.97. Kayla paid $22.50, Kyle paid 1/3 of the bill, Kirsten paid 20% of the bill, and Kevin paid the rest of the bill. Who paid the greatest part of the bill? What percentage of the total bill did they pay?

1. Kevin threw 15 darts at a dart board. He hit the bulls-eye 6 times. What percent of the time did Kevin miss the bulls-eye?
2. Convert .035 to a percent and to a fraction or mixed number in simplest form.
3. Convert 12.25% to a decimal and a fraction or mixed number in simplest form.
4. Convert 3/11 to a decimal rounded to the nearest thousandth and in turn to a percent?
5. What does percent mean?
6. Billy has 15 black marbles, 10 purple marbles, 5 white marbles, and 10 red

marbles. What percent of the marbles are NOT purple or red?

1. What percent of 25 is 12?
2. What number is 30% of 40?
3. The number 9 is what percent of 30?
4. What is the ‘percent of increase’ going from 12 to 18?
5. What is the ‘percent of decrease’ going from 18 to 12?
6. A boat is on sale for $30,000. What was the original price if the discount was 25%?
7. If a buyer puts 2/3rds down toward purchase of a new car and still owes $9,000, what is the total price of the car?
8. Jessie leaped over the high jump bar set at 1 yard, 2 feet, 9 inches above the ground. How many inches off the ground did he jump?
9. Sally uses a half-off coupon to pay for her dinner. Cindy has a coupon for $10 off the same meal. The total bill for both dinners was $36 before tax and tip. What percentage of the total bill did each girl pay?
10. What percentage does Point A to Point B on the number line represent?

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 A B

1. Kevin paid $20 for a shirt and 25% off a pair of pants. His total bill was $44 before tax. What was the original price of the pants?
2. Carol opened a savings account, making a one-time deposit of $350. The bank pays Carol 1.5% simply interest per year. How much will Carol have in the savings account at the end of 3 years?
3. Bobby started running a mile at 3:52:10. If he finished running at 4:01:05, how fast did he run the mile?
4. A skateboard store pays $14 for a used skateboard, than sells it for $30. What is the percent of mark-up?
5. A motorcycle originally priced at $16,000 is marked down to $12,500. What is the percent discount, rounded to the nearest percent?
6. Twenty students favor coke. Fifteen favor Dr. Pepper. Ten students prefer root beer. What percent of the students prefer each type of beverage?
7. At Evans Middle School, for extra-curricular activities, thirteen percent of 6th grade students prefer enrolling in the marching band. Sixteen percent prefer enrolling in orchestra. And 1/5th prefer to start their own band one day. None of the remaining students are interested in participating in music activities whatsoever. If there are a total of 450 students in the 6th grade, how many students have no interest in participating in music activities?
8. A mobile home cost $34,991.25 including tax. The tax was 8.5% of the purchase price. What was the purchase price before tax?

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PERCENTS

ANSWER KEY

1. Kyle $38.99, Kevin $32.09, Kirsten 15. 69 inches

$23.39, Kayla $22.50

1. 60% 16. Sally $9, 25%

Cindy $8, 22.2%

1. 35%, 7/200 17. 37.5%
2. .1225, 49/400 18. $32
3. .273, 27.3% 19. $350 + $15.75 = $365.75
4. Divide by 100, Out of 100 20. 00:8:55 or 8 minutes, 55 sec
5. 50% 21. 114.3%
6. 48% 22. 22.9%
7. 12 23. 44.4% Coke, 33,3% Dr. Pepper,

22.2% Root Beer

1. 30% 24. 229.5 or 230 Students
2. 50% 25. $32,250
3. 33.3%
4. $40,000
5. $27,000