Answer completely and show all work

Lauren, Clyde, Janelle, and Kelly just finished having their student go through a physical fitness challenge. Each student was placed into a category after being evaluated. The results are shown below.

Physical Fitness Challenge

	Green	Bronze	Silver	Gold	
Lauren	4	10	15	6	35
Clyde	6	11	16	2	35
Janelle	2	12	13	8	35
Kelly	7	7	14	7	35

(handwritten: 19, 40, 58, 23 under columns)

(handwritten right side: 140 TOTAL)

(handwritten: 23, 19, 40, 58 / 140 ✓)

1. What percentage of the total number of students is in Clyde's class?

$$\tfrac{1}{4} = 25\%$$

2. Give the fraction, decimal and percent that represent the total number of students that earned a Bronze designation.

$$\frac{40}{140} \text{ or } \frac{2}{7} \quad , \quad .\overline{285714} \quad , \quad 28.5714\%$$

F   D   P

3. What percentage more of students earned a gold compared to a green designation?

23 vs 19

$$\frac{4}{19} \approx 21.05\%$$

4. Nationally, there is an expectation that at least 60% of students should earn a Silver or Gold designation. Discuss how the classes and the school are measuring up to this criterion. Do changes need to be made before the next challenge at the end of the year?

$$\frac{21}{35}, \frac{18}{35}, \frac{21}{35}, \frac{21}{35} ;$$ 3 of 4 classes meet criterion. Clyde's needs to improve

60%, 51%, 60%, 60%   overall, they are each at bare minimum. ALL could use help.

5. The Smith family is getting a group rate for the rooms in a hotel to accommodate a reunion celebration. They have blocked off 16 rooms for a discounted price of 15% off. Originally the room rate is $245 per night. The tax and resort fee add an additional 12%. $233.24/night

   a. John will be booking 3 rooms. What would the nightly rate be for each night of his stay?

   $$245 \times .85 = 208.25 \times 1.12 = 233.24$$
   -15% $+12\%$

   $699.72 for 3 rooms

   b. Peggy will be booking a room for 5 nights. What will her total bill amount to?
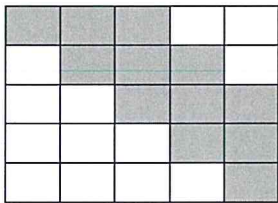
   $1,166.20

   c. How much money does the hotel bring in for this group on taxes and resort fees alone?

   $$208.25 \times .12 \times 16 = \$399.84$$
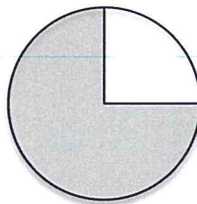
   24.99

Answer completely and show all of your work.

1. Write the shaded part of each figure as a percent.

   a.

   $\frac{12}{25} = 48\%$

   b.

   75%

2. Write each amount as a percent.

   a. $\frac{34}{51}$ $\frac{2}{3} = 66\frac{2}{3}\%$

   b. 18 out of 108

   $\frac{1}{6} = 16\frac{2}{3}\%$

Color	Amount
Yellow	15
Red	14
Blue	12
Green	16
Brown	13

   c. 0.81

   81%

   d. $\frac{1}{40}$

   2.5%

3. Complete the table below for the missing information.

Fraction	$\frac{27}{20}$	$\frac{11}{50}$	$\frac{4}{5}$	$\frac{18}{54}$
Percent	135%	22%	80%	$33\frac{1}{3}\%$

4. Robby had 30 students in his classroom last year. This year the amount increased by 20%. How many students are in his classroom this year?

   36

5. At the Toyota dealership, 65% of all car sold include the navigation. If they sold 132 cars last week, about how many would you expect to have included the navigation?

   86 cars

6. The price for the items ordered at lunch was $23.45. How much would the price be after tax and tip if the tax rate is 8% and you plan to tip 20% of the new total?

   $23.45 \times 1.08 = \$25.33 \times 1.2 = \$30.40$

   (25.326)   (30.396)