Part A: Selected Response (1 mark each)

$$
\begin{aligned}
& \text { Patio and Rate }{ }^{\text {answer }} \\
& \text { Whole } \\
& 100
\end{aligned}
$$

1. What percent is represented by the shaded region? Original
2. $\qquad$
A) $30 \%$
B) $30.5 \%$
C) $30.15 \%$
D) $30.015 \%$

3. What is $0.62 \%$ of 310 ?
A) 0.1922
B) 1.922
C) 19.22

$$
\frac{x}{310}=\frac{0.62}{100}
$$

$$
\begin{aligned}
\frac{100 x}{100} & =\frac{192.2}{100} \\
x & =1.922
\end{aligned}
$$

2. $\qquad$
D) 192.2
3. What percent is 3 out of 750 ?
A) $0.004 \%$

$$
\frac{3}{750}=\frac{x}{100}
$$

3. $\qquad$
B) $0.040 \%$
C) $0.400 \%$
D) $4.000 \%$

$$
\begin{aligned}
\frac{750 x}{750} & =\frac{300}{750} \\
x & =0.4 \%
\end{aligned}
$$

4. $\qquad$
A) 15.0
B) 86.4
C) 276
$240 x=3600$

$$
x=15
$$

D) 864

$$
P: W
$$

5. What decimal is equivalent to $12: 8$ ?
6. $\qquad$
A) 1.4
B) 2.0
C) 0.6
D) 1.5

7. The ratios $\square: 16$ and 5:2 are equivalent. Find the missing number.
8. $\qquad$
A) 23
B) 80
C) 32
$x: 16$
5: 2

9. A jar has 10 red candies, 6 yellow candies, and 12 blue candies. Describes
10. $\qquad$ the ratio of the number of red candies to the number of yellow candies to the number of blue candies, expressed in lowest terms?
A) $5: 3: 6$
B) $5: 2: 6$
C) $6: 10: 12$
D) $10: 6: 12$
$R: Y: B$
$10: 6: 12$
$5: 3: 6$
11. The ratios below are for different colors of paint. Which ratio of liters of
12. $\qquad$ white paint to liters of blue paint will create the lightest shade of blue? W:B
A) $1: 6$
B) $3: 9 \rightarrow 1: 3$
C) $4: 10 \rightarrow 1: 2.5$
13. Write the part to part ratio $5: 7$ as a part to whole ratio.
14. 

$5+7=12$
A) $5: 12$
$5: 12$
C) $7: 5$
D) $12: 5$
10. Which represents the part to whole ratio of 2:5?
10. $\qquad$


Part B: Constructed Response - Answer all questions and show all workings.

1. Complete each conversion. All fractions must reduced to lowest terms. (6 marks)
A) Change $\frac{3}{4} \%$ to a decimal: $0.75 \%=0.0075$
B) Change 0.003 to a percent:
C) Change 0.55 to a fraction:

$$
\frac{0.3 \%}{\frac{55}{100}=\frac{11}{20}}
$$

$$
7: .5
$$

D) Change $\frac{7}{5}$ to a decimal: $\qquad$
E) Change $\frac{5}{4}$ to a percent.

$$
=0.007
$$

F) Change $0.7 \%$ to a fraction

$$
\frac{125 \%}{\frac{7}{1000}}
$$

$\qquad$
2. A test is marked out of 75 . If you scored $60 \%$, how many marks did you get on your test? ( 2

$$
\frac{\text { Part }}{\text { marks }}=\frac{\%}{100}
$$

$$
\frac{x}{75}=\frac{60}{100}
$$



$$
x=45
$$


3. A big box of Smarties has six thousand five hundred candies in it. What percent of them are blue if there are only 13 blue candies in the box? ( 2 marks)

$$
\begin{aligned}
& \text { total }=6500 \\
& \text { Blue }=13 \\
& \text { percent }=?
\end{aligned}
$$

$$
\begin{aligned}
& \frac{13}{6500}=\frac{x}{100} \\
& \frac{6500 x}{6500}=\frac{1300}{6500}
\end{aligned}
$$



$$
\% \text { change }=\frac{[\text { New -Original }]}{0 r_{i g i n a l}} \times 100
$$

5. With the recent drop in oil prices, the average price of a house in Corner Brook changed to $\stackrel{\$ 250,000}{\mathbf{N}} \underset{\mathrm{O}}{\mathrm{O}}$ from
A) Is this an increase or decrease? (1 mark)

Decrease

$$
\begin{aligned}
& \begin{array}{c}
\text { B) Find the percent change. (2 marks) } \\
\% \text { change }
\end{array}=\frac{250000-280000]}{280000} \times 100= \\
& \text { The percent decrease is } 10.71 \%
\end{aligned}
$$

6. In forty games, Sally had twelve hits. How many games did she play to get 100 hits? ( 2 marks)
games: hits

$$
x: 100
$$

$$
\begin{aligned}
\frac{12 x}{12} & =\frac{4000}{12} \\
x & =333 . \overline{3}
\end{aligned}
$$

She played approx. 333 games
$B: G$
7. There are 96 students going on a school trip. If the ratio of boys to girls is $3: 5$, how many of the students are boys? ( 2 marks)

$$
\begin{array}{ll}
\text { B: total } & \frac{8 x}{8}=\frac{288}{8} \\
3: 8 & x: 96
\end{array}
$$

$$
36 \text { students are bays. }
$$




$$
\begin{array}{cc} 
\\
24: 7.97 & \frac{24 x}{24}=\frac{7.97}{24} \\
1: x & x=0.33
\end{array} \text { (The unit price }
$$

10. Anna bought gasoline for her trip and she paid $\$ 27.44$ for 11.2 liters. In a nearby community Becky paid $\$ 82.41$ for 33.5 liters. Which person got the better deal? ( 3 marks)
Anna: $\$ 27.44: 11.2 \mathrm{~L}$ Becky: $\$ 82.41: 33.5 \mathrm{~L}$
$\$ 2.42 / \mathrm{L} \quad x: 1$

$$
\frac{11.2 x}{11.2}=\frac{27.44}{11.2}
$$

$$
x=2.42
$$

$\$ 2.46 / \mathrm{L}$


(2 marks) $800 \mathrm{~km}: 2.8 \mathrm{hr}$
$150 \mathrm{~km}: x$
It will lake her

$$
\frac{800 x}{800}=\frac{420}{800} \quad x=0.525
$$

$800 \mathrm{Km}: 2.8 \mathrm{hr}$

$$
\begin{aligned}
x & : 6 \\
\frac{2.8 x}{2.8} & =\frac{4800}{2.8} \\
x & =1714.29
\end{aligned}
$$

(The race is


