<u>Grade VI (Mathematics)</u>

<u>Topic: Ratio and Proportion</u>

<u>Practice WS (Questions from the Cambridge Past papers)</u>

Name: _____   Section: _____

Q1) Ali has 2 green reusable shopping bags and 5 purple reusable shopping bags.

Select the ratio that compare the number of purple reusable bags to the total

number of bags. Mark all that apply.

a) 5 to 7	b) $5:7$	c) $5:2$
d) $\frac{2}{5}$	e) 2 to 7	f) $\frac{5}{7}$

Q2) Write a ratio that is equivalent to $\frac{6}{9}$ and $\frac{16}{24}$

Q3) Stephan is planning a hiking trip at Kings Canyon National Park. He plans to hike 14 miles

every 2 days. If he hikes 42 miles, how many days will he hike?

Q4) It takes 8 minutes for Sue to make 2 laps around the go-track. How many laps can Sue

complete in 24 minutes?

Q5) The width of Ahmed's original photo is 8 inches. The length of the original photo is 10

inches. He prints smaller version that has an equivalent ratio of width to length.

The width of the smaller version is 4 inches less than the width of the original.

What is the length of the smaller version?

Q6) Ariel bought 3 raffle tickets for $5. How many tickets could Ariel buy for $15?

Q7) Courtney bought 3 maps for $10. Use the table of equivalent ratios to

find how many maps she can buy for $30.

Maps	3	6	
Cost	10	20	30

Q8) There are 36 students in the chess club, 40 students in the drama club, and 24 students in the

film club. What is the ratio of students in the drama club to the students in the film club?

Q9) A trail mix has 4 cups of raisins, 3 cups of dates, 6 cups of peanuts, and 2 cup of cashews. Which

ingredients are in the same ratio as cashews to raisins?

Q10) There are 32 adults and 20 children at a school play. What is the ratio of children to

total number of people at the school play?

Q11) Sonya got 8 out of 10 questions right on a quiz. She got the same score on a quiz that had 20

questions. How many questions did Sonya get right on the second quiz?

Q12) Sam has 3 green apples and 4 red apples. Select the ratios that compare the number of red

apples to the total number of apples. Mark all that apply.

• 4 *to* 7	• 4 : 7	• $\frac{3}{7}$
• 3 *to* 7	• 4 : 3	• $\frac{4}{7}$

Q13) Determine whether each ratio is equivalent to $\frac{1}{2}, \frac{2}{3}, \frac{4}{7}$

Write the ratio in the correct box.

$$\frac{6}{9} \qquad \frac{4}{8} \qquad \frac{7}{14} \qquad \frac{20}{35} \qquad \frac{40}{80} \qquad \frac{8}{14} \qquad \frac{4}{6} \qquad \frac{8}{12}$$

$\frac{1}{2}$	$\frac{2}{3}$	$\frac{4}{7}$

Q14) Geometry: Is the ratio of length to width for these two-rectangle proportional? Tell how you know.

7 m

14 m

15 m

21 m
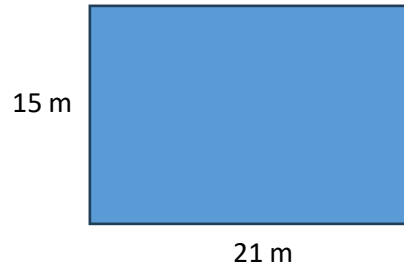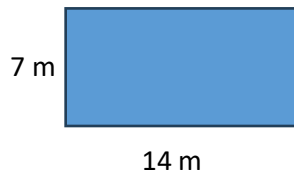
Q15) One exhibit at the zoo has 7 birds for every 2 mammals. If there are 10 mammals in the exhibit, how many birds are there?

Q16) There are 5 children for every 3 adults who visit the zoo. If there are 30 children at the zoo, how many adults are there?

Q17) It takes 8 minutes for the train to fill 3 cars with people from the zoo. How long does it take the train to fill 18 cars of people from the zoo?

Q18) A rectangle has its length and width in the ratio of 4:3. If the width is 27 cm, find the length.