

2nd semester exam Review 2014
Part I
RATIOS. RATES. and PROPORTIONS

1. Marie has saved \$54. On Wednesday, she spent \$3 of her savings. What ratio represents the portion of her total savings that she still has left?

- [A] 1:9 [B] 17:18 [C] 15:16 [D] 8:9

2. Velma needs $4\frac{1}{2}$ feet of fabric to make a costume for a play. How many yards of fabric does she need?

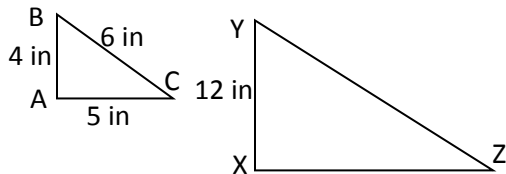
3. Joey is making punch for a birthday party. If the punch requires 15 quarts of juice, how many gallons does it require?

4. If 12 inches represents 2 feet in an architectural model. How tall would the actual building be if the model is 42 inches tall?

5. If twenty-one pounds of tomatoes cost \$84 dollars, how much would 18 pounds cost at the same rate?

6. Tommy bought 5 pounds of assorted chocolates for \$9.65. At this rate, how much would 3 pounds of assorted chocolates cost?

7. Triangle ABC is similar to triangle XYZ. Find the perimeter of triangle XYZ.



- A 12 inches B 18 inches
 C 15 inches D 45 inches

8. The distance between San Rafael and Novato is 20 miles. What would the distance in inches be between the two towns on a map if the maps scale is:

0.75 inches = 5 miles.

- A 2.5 inches B 3 inches
 C 25 inches D 100 inches

9. $\frac{5}{6} = \frac{t}{18}$

10. $\frac{6}{k} = \frac{24}{28}$

11. $\frac{21}{5} = \frac{c}{7}$

12. $\frac{15}{w} = \frac{2}{5}$

13. $\frac{3}{n} = \frac{2.7}{18}$

14. $\frac{0.2}{3} = \frac{3}{d}$

15. Reagan is having a party this weekend. She can buy soda in 2 liter bottles or three liter bottles. The two-liter of soda costs \$1.78, and the three-liter soda costs \$2.55. Which is the better buy?

- A The 2-Liter
- B The 3-Liter
- C The 1-Liter
- D They're the same

16. Kimberly bought 4 notebooks for \$6.32. At the same unit price, how much would she pay for 5 notebooks?

- A \$1.58
- B \$790
- C \$7.90
- D \$7.00

17. Tito wants to buy some peanut butter to donate to the local food pantry. If Tito wants to save as much money as possible, which brand should he buy?

Brand	Sale Price
A) Nutty	12 ounces for \$2.19
B) Grandma's	18 ounces for \$2.79
C) Bee's	28 ounces for \$4.69
D) Save-A-Lot	40 ounces for \$6.60

18. Lexi painted 3 faces in 12 minutes at the Arts and Crafts fair. At this rate, how many faces can she paint in 40 minutes?

19. Franco drove 150 miles in 1.5 hours. At this rate, how long will it take him to drive another 25 miles to the next town.

20. A snake can slither about 20.5 feet in 4 minutes. At this speed, how far can it travel in one hour?

- A 1230 feet
- B 5.125 feet
- C 307.5 feet
- D 82 feet

21. The Grove sells three types of muffins. Apple Crisp are 3 for \$2.40, Chocolate Chip are 5 for \$5.15, and Blueberry are 12 for \$7.32. Which type of muffin is the best buy?

- A Apple Crisp
- B Chocolate Chip
- C Blueberry
- D None

22. Each week Jackson drinks three 200mL bottles of Gatorade. How many liters of Gatorade does he each week?

- A 60 liters
- B 0.6 liters
- C 0.2 liters
- D 20 liters