**Topic 9 Review**

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| 1. | The picture shows the colors Mr. Turner. used to make a tile design. Which fraction names the part of the design that is Orange?

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| --- | --- | --- | --- | --- |
| Red | Blue | Green | Purple | Red |
| Orange | Red | Green | Orange | Red |

 |  |

1. 3/10
2. 2/10
3. 1/2
4. 10/3

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| --- | --- | --- |
| 2. | Mrs. Byers. traced this block from a pattern block set and drew lines in the figure. Then she shaded part of the figure. What fraction of the shape did she shade? |  |

1. 1/3
2. 1/4
3. 1/5
4. 3/1

3. Which matches the diagram?


1. 1 + 1/3
2. 5/3
3. 1.23
4. 4/3

4. Which fraction is **equivalent** to 1/5?

A. 4/18

B. 4/1

C. 25/100

D. 20/100

5. What is the **greatest common factor** of 24 and 56?

 A. 20

 B. 8

 C. 4

 D. 12

6. Mr. Domagala ran 1 11/12 miles on Friday, 2 5/6 miles on Saturday, and 1 3/5 miles on Sunday. List the miles Mr. Domagala ran from **greatest to least**?

A. 2 5/6, 1 3/5, 1 11/12

B. 2 5/6, 1 11/12, 1 3/5

C. 1 3/5, 1 11/12 , 2 5/6

D. 1 11/12, 2 5/6, 1 3/5

7. Mrs. Raupp is making bread for her family supper using Carmen’s recipe. Here is the recipe.
 
Which fraction below is equal to the amount of sugar in Mrs. Raupp’s recipe?

A. 3/2 tablespoons C. 1/2 tablespoons

B. 10/3 tablespoons D. 1/3 tablespoons

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8. The chart shows two sets of fractions. Each fraction in Group A is paired with an equivalent fraction in Group B.

|  |  |
| --- | --- |
| **Group A** | **Group B** |
| $$\frac{12}{16}$$ | $$\frac{3}{4}$$ |
| $$\frac{40}{56}$$ | $$\frac{10}{14}$$ |
| $$\frac{24}{44}$$ | $$\frac{6}{11}$$ |

 Which describes the method that can be used to change each fraction in Group A to an equivalent fraction in Group B? |  |

1. Multiply both the numerator and the denominator by 3.
2. Subtract 9 from both the numerator and the denominator.
3. Divide both the numerator and the denominator by 4.
4. Subtract 11 from both the numerator and the denominator.

9. Which of the following is **the greatest common factor** of 25 and 45?

A. 25

B. 5

C. 9

D. 15

10. Which two numbers represent the value of Point *Y* on the number line?


A B C D

    

Write each fraction in **simplest form**.

11. $\frac{200}{400}$ = $\frac{1}{2}$

12. $\frac{14}{42}$ = $\frac{1}{3}$

13. **List all** of the common factors of 36 and 30.

\_\_\_\_\_\_\_\_\_\_\_\_1, 2, 3, 6, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Write each decimal as a fraction or mixed number for numbers 17- 19 make sure it is in simplest form

14) 2.6 = \_\_\_2 $\frac{3}{5}$\_\_\_

15) 0.17 = \_\_\_\_$\frac{17}{100}$\_\_\_\_\_

16) 5.45 = \_\_\_5$\frac{9}{20}$\_\_\_\_\_

Write each fraction or mixed number as a decimal for numbers 20-21

17. 8$\frac{4}{10}$ = 8.4

18. $\frac{5}{10}$ = 0.5

Use division to change the fraction to a decimal for problem 22.

19. $\frac{2}{5}$ = 0.4

20. About 18/25 of Eden Hall’s students own a video gaming system other than Wii. Which is equal to 18/25?

A. 0.5

B. 0.72

C. 0.36

D. 0.75

21. Chocolate chips can be great to add to cookies. How many third cups of chocolate chips are there in 2 2/3 cups?

8

Write each improper fraction as a mixed number or whole number.

22. $\frac{6}{4}$ = 1$\frac{1}{2}$ 1$\frac{2}{4}$

23. $\frac{5}{3}$ = 1$\frac{2}{3}$

Write each mixed number as an improper fraction.

24. 7$\frac{5}{7}$ =$\frac{54}{7}$

25. 3 $\frac{4}{5}$ = $\frac{19}{5}$

|  |  |
| --- | --- |
| 26. The floor plan for the first floor of Sally’s house is shown below. If the area of the kitchen is 240 square feet, which is the best **estimate** for the total area of the first floor of the house?**Test Image**  |  |



1. The kitchen is about   of the total area, so the area of the first floor is about 240 × 6, or 1,440 square feet.
2. The kitchen is about   of the total area, so the area of the first floor is about 240 ÷ 6, or 40 square feet.
3. The kitchen is about   of the total area, so the area of the first floor is about 240 × 4, or 840 square feet.
4. The kitchen is about   of the total area, so the area of the first floor is about 240 ÷ 4, or 45 square feet.

27. Mr. Smith, Mr. Domagala, Mrs. Kuzilla, and Mr. Turner are going to equally share 2 cupcakes from Georgetown Cupcakes that were left over from an event at the school.

1. In the space below, show or explain how they can equally share the leftover Cupcakes.

Each cupcake would be divided into 4 pieces, and each person would get 1 piece of each cupcake.$\frac{1}{4}$ + $\frac{1}{4}$ = $\frac{2}{4}$ or $\frac{1}{2}$

B. How much cupcake will each of the teachers get?  \_\_\_\_\_$\frac{1}{2}$\_\_\_\_\_\_\_\_\_\_

C. How much more cupcake would they need for each of them to get a whole cupcake?  \_\_\_\_2 cupcakes\_\_\_\_\_\_\_\_\_