Carroll County Public Schools
Grade 4 Cluster 5 & 6
Post Test - Review
Fractions and Probability

Name _____ Date _____

1. Bobby has 4 M&Ms, 5 pretzels, and 3 peanuts in his trail mix. Write the fraction that shows how much trail mix was **NOT** M&Ms.

_____

Compare using < , > , or =.

2. $\frac{4}{6}$ _____ $\frac{3}{6}$

3. $\frac{2}{5}$ _____ $\frac{5}{5}$

4. Emily has $\frac{3}{6}$ of her homework complete. Tyra has $\frac{5}{6}$ of her homework complete. Write a number sentence to compare their how much of their homework is complete.

_____

5. Which set of fractions is ordered from **least to greatest**?

A. $\frac{3}{8}$ $\frac{2}{8}$ $\frac{7}{8}$

B. $\frac{1}{8}$ $\frac{5}{8}$ $\frac{4}{8}$

C. $\frac{3}{8}$ $\frac{5}{8}$ $\frac{7}{8}$

6. Which set of fractions is ordered from **greatest to least**?

A. $\frac{3}{5}$ $\frac{4}{5}$ $\frac{5}{5}$

B. $\frac{4}{5}$ $\frac{3}{5}$ $\frac{1}{5}$

C. $\frac{4}{5}$ $\frac{2}{5}$ $\frac{3}{5}$

7. Put the following mixed numbers in order, from greatest to least:

$$4\frac{5}{9}, \quad 5\frac{7}{9}, \quad 4\frac{8}{9}$$

_____

Write the following improper fractions as mixed numbers:

8. $\frac{12}{5}$ _____

9. $\frac{14}{4}$ _____

10. $\frac{17}{3}$ _____

Complete the equivalent fractions.

11.

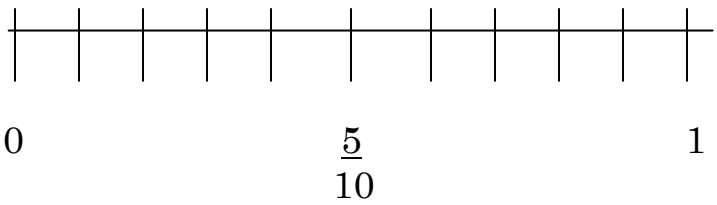
$$\frac{4}{} = \frac{1}{2}$$

12.

$$\frac{3}{4} = \frac{}{12}$$

13.
Step A

Place $\frac{3}{10}$ on the number line below.



Step B
Explain why your answer is correct.
Use what you know about fractions in your explanation.
Use words and/or numbers in your explanation.

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14. Write the equivalent fraction.

$\frac{3}{9} = \frac{\quad}{9}$

15. Write $\frac{15}{2}$ as a mixed number. _____

16.
In a fourth grade science class, students are experimenting with electricity. They have a spool of wire that is $\frac{14}{4}$ of a foot

Part A
Write the length of the wire as a mixed number.

_____

Part B
Explain why your answer is correct.
Use what you know about fractions to explain your answer.
Use words and/or numbers in your explanation.

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Cluster 6

17. Which of the following is a prime number?

A. 2 B. 6

C. 8 D. 9

18. Simplify: $\frac{5}{15}$ = _____

Solve and make sure all answers are in the simplest form

19.

$$\frac{3}{9} + \frac{4}{9} =$$

20.

$$\frac{1}{6} + \frac{2}{6} =$$

21.

$$\frac{3}{4} - \frac{1}{4} =$$

22.

$$\frac{6}{7} - \frac{2}{7} =$$

23. Ben started last week with a full tank of gas. He used $\frac{3}{8}$ of a tank of gas going to Ski Liberty. During the week he uses another $\frac{3}{8}$ of a tank going to school.

Part A
How much of the tank of gas is left? Write the answer in simplest form.

_____

Part B
Explain why your answer is correct.
Use what you know about fractions in your explanation.
Use words and/or numbers in your explanation.

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24. We are building a greenhouse and we'll need 2 lengths of wood that are 3 ½ feet long each. What is the total length we will need?

_____

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

26. John has a box of Jelly Bellies. In the box are 1 red, 3 blue, 3 green, and 5 yellow. Write the fraction to express the probability of picking a **yellow** jelly belly from the box.

_____

27.
Connor and Adam are playing a card game. Connor has the following cards in his hand. Adam has to choose a card from Connor's hand without looking.

A	***2***	***5***	***6***	***7***	***8***

Part A
Write a fraction that shows the probability of choosing a number other than 6 from this set of cards.

_____

Part B
Connor adds three more cards to his hand. He adds a 6, 4, and 4. Explain how adding three more cards changes your fraction.
Use what you know about fractions in your explanation.
Use words and/or numbers in your explanation.

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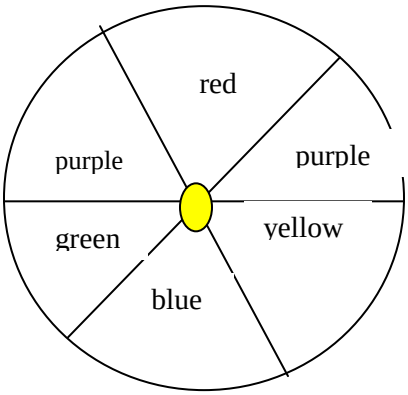
28. Sara wants an ice cream sundae. She can choose one from each from:

Ice Cream	Toppings
Chocolate	Whipped Cream
Strawberry	Nuts
Vanilla	Cherry

Construct a tree diagram showing all of the possible combinations that sundae's Sara could make with these options.

27.



Adam says that the probability to land on purple is 1/3, Gabrielle says that 6 out of 18 times you'll land on purple.
Step A- Who is correct?

_____

Step B. Explain why your answer is correct.
Use what you know about probability in your explanation.
Use words and/or numbers in your explanation.

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