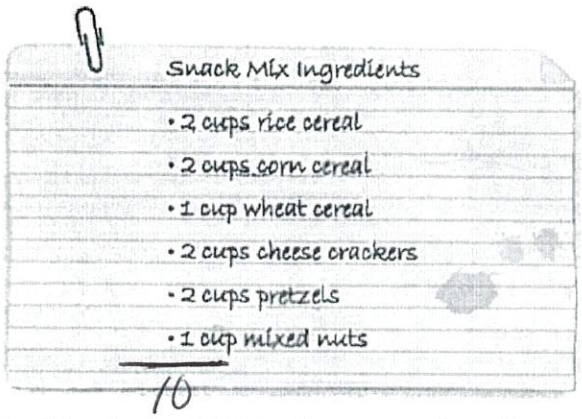
Name: Date:

Math 6 F&D&P&R quiz (v17) Solve in 10 min or less. **Score:** **/ 10**

*****THERE ARE TWO SIDES TO THIS F&D&P&R SO THAT MsT could spread out the questions and give you lots of space to solve. Make sure you turn the page over to solve the questions on that side.**

#1: Use this picture to answer.

The following ingredients are mixed together to create a snack.



a) Write PERCENT (%) of the snack mix ingredients is pretzels? Then convert % into a DECIMAL.

$\frac{2}{10} = 20\% = 0.20$

b) What is the RATIO of corn cereal to cheese crackers (reduce answer if possible)

$2 : 2 = 1 : 1$

c) What is the RATIO of rice cereal to all ingredients? (reduce answer if possible)

$2 : 10 = 1 : 5$

#2: Compare these fractions from **least to greatest**.

$4\frac{1}{3}$ $\quad \frac{3}{2} = 1\frac{1}{2}$ $\quad \frac{13}{6} = 2\frac{1}{6}$ $\quad 3\frac{3}{4}$

(4) (1) (2) (3)

FINAL ANSWER: $1\frac{1}{2} < 2\frac{1}{6} < 3\frac{3}{4} < 4\frac{1}{3}$

$(\frac{3}{2})$ $(\frac{13}{6})$

#3: Look at this random list of numbers. Highlight all the PRIME NUMBERS with a BLUE HIGHLIGHTER and COMPOSITE NUMBERS with a GREEN HIGHLIGHTER. If the number is not prime or not composite, then don't highlight it.

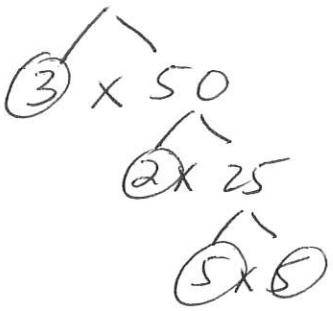
6, 19, 10, 0, 13, 22, 100, 26, 2, 7, 1, 4, 11

2x3 2x5 2x11 4x25 2x13 2x2

3b. UNDERNEATH each composite number, prove it is composite by giving a basic fact.

(keep going...turn page over)

#4: DRAW A FACTOR TREE for the number 150

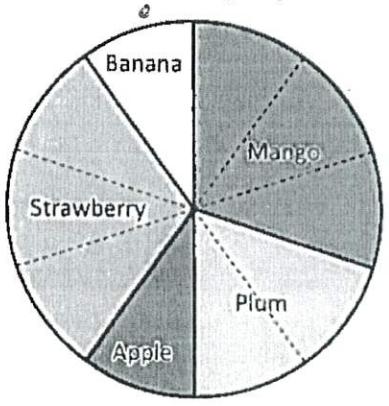


150 = 2 x 3 x 5 x 5

#5: Refer to this chart that shows integers being compared. (chart obtained from released MATH6 PAT2013) **CROSS-OFF all the rows that are incorrect.**

~~15 < 4~~	NO (F)
10 < 16	T
0 > −4	T
−18 < −13	T
~~11 < 12~~	NO (F)
5 > 4	T
−13 > −15	T
~~0 = 0~~	No (F)

#6: Use this circle graph to answer. Students' choices for favourite fruit is displayed.



total 10

a)What is the RATIO of students choosing 'mango' to 'strawberry'? Reduce ratio if possible.

3 : 3 = 1 : 1

b)What PERCENT chose 'apple'?

10%

c)What amount of students chose 'strawberry'? Express answer as DECIMAL.

$0.3 = \frac{3}{10}$

d)Pretend this circle graph is a spinner. What is the theoretical probability that the spinner will land on 'plum'? Express your answer as a PERCENT.

$\frac{2}{10} = 20\%$