5th Grade Assignment – Week #22

Group Assignments:

For Tuesday.

Decimal Fractions   Discovery!

Give all answers as a decimal fraction. See if you can discover the shortcut!

1) $120 \div 10$

2) $123 \div 10$

3) $123 \div 1000$

4) $0.3 \div 10$

5) $0.03 \div 10$

6) $0.003 \div 100$

7) $95.6 \div 10$

8) $3.84 \div 100$

9) $438.27 \div 100{,}000$

Decimal Fraction Practice

10) 0.1×0.4

11) 0.004×0.012

12) 3.3×0.0002

Common Fractions

13) What is halfway between $\frac{8}{15}$ and $\frac{4}{15}$?

14) What is halfway between $\frac{2}{7}$ and $\frac{3}{7}$?

15) What is halfway between $\frac{1}{3}$ and $\frac{3}{5}$?

16) What is halfway between $\frac{1}{3}$ and $\frac{5}{8}$?

For Thursday

Metric Measurement

1) Fill in the blanks for these problems. You can use the tricks we learned for multiplying and dividing by 10, 100, 1000, etc.

a) 3 cm = _____ m

b) 3.8 mm = _____ m

c) 23.4 ℓ = _____ cℓ

d) 0.8 g = _____ mg

e) 3.6 mm = _____ cm

f) 8.71 km = _____ m

g) 67 g = _____ kg

h) 67 kg = _____ g

i) 0.04 ℓ = _____ mℓ

j) 0.04 mℓ = _____ ℓ

k) 17.5 mm = _____ km

l) 2.365 kg = _____ mg

Cat Puzzle!

2) We know that Jasmine weighs 5.45 kg. What you didn't know is that Mr. York sweeps up 1.3 grams of cat hair every day. After how many years will Mr. York have swept up enough cat hair in order to make a new cat (that weighs the same as Jasmine)?

<u>Individual Work</u>

- *Equipment needed for next week*: Next week, the assignment will include an exercise whereby the students will need a long rope. The rope should be 12-meters long, which is about 39.4 feet. If you can't find rope, then thick yarn could work (but probably not as well). More instructions will follow in next week's assignment.

- *Common fraction practice.*

  1) a) $\frac{11}{20} - \frac{2}{5}$ b) $\frac{4}{53} + \frac{29}{53}$ c) $\frac{9}{10} + \frac{3}{8}$ d) $\frac{2}{3} \times \frac{3}{8}$ e) $\frac{1}{12} \times \frac{5}{12}$ f) $\frac{2}{5} \div \frac{2}{7}$ g) $\frac{11}{12} \div \frac{1}{3}$

- *Decimal fraction practice.*

  2) a) 0.043 + 0.64   b) 3.27 + 0.0002   c) 3.8 + 0.52   d) 27.37 − 0.9   e) 0.3 − 0.16

  f) 0.42 − 0.008   g) 0.7 x 0.1   h) 0.001 x 0.03   i) 1.2 x 0.0006   j) 3.6 x 0.075

- *Converting between decimal fractions and common fractions.*

  3) With each of the below problems, rewrite the given decimal fraction in two ways: as a single fraction (with a power of ten denominator), and then as a series of fractions where each one has a single-digit numerator and a power of ten denominator. (Don't reduce.)

  a) 0.27   b) 0.00749

  4) Convert each common fraction into a decimal fraction.

  a) $\frac{317}{1000}$ b) $\frac{7}{100}$ c) $\frac{24}{25}$ d) $\frac{33}{40}$ e) *Challenge!* $\frac{1}{3}$