Math 9 - Unit 1: Real Numbers

Name_____

Homework #2 - Multiplying and Dividing Fractions

Date_____ 5K____

Multiply the fractions.

1) $\dfrac{5}{3} \times \dfrac{7}{8}$

2) $\dfrac{5}{3} \times \dfrac{2}{5}$

3) $-2 \times \dfrac{4}{5}$

4) $\dfrac{8}{7} \times \dfrac{3}{10}$

5) $\dfrac{9}{5} \times -\dfrac{4}{3}$

6) $-\dfrac{2}{5} \times \dfrac{2}{3}$

7) $\dfrac{7}{6} \times \dfrac{5}{6} \times -\dfrac{3}{7}$

8) $-2 \times -\dfrac{7}{10} \times -\dfrac{12}{13} \times -\dfrac{13}{9}$

Divide the Fractions

9) $\dfrac{3}{2} \div \dfrac{9}{5}$

10) $\dfrac{7}{8} \div \dfrac{-3}{2}$

11) $\dfrac{-1}{7} \div \dfrac{-4}{5}$

12) $\dfrac{5}{4} \div \dfrac{3}{4}$

13) $\dfrac{8}{5} \div \dfrac{-1}{5}$

14) $-2 \div \dfrac{-2}{3}$

15) $\dfrac{12}{7} \div \dfrac{-8}{9}$

16) $1 \div \dfrac{17}{10}$

Evaluate each expression.

17) $\dfrac{7}{4} \div \dfrac{8}{5} \times \dfrac{4}{3}$

18) $\dfrac{7}{5} \times \dfrac{3}{4} \div \dfrac{1}{2}$

Application:

19) In 1993, about 6600 satellites were orbiting Earth. There were also about $\dfrac{25}{11}$ times that number of pieces of junk in orbit. The junk included used rockets and debris from explosions in space. About how many pieces of junk were orbiting the Earth?