Homework #2 - Multiplying and Dividing Fractions

5K Date

Multiply the fractions.

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

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

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

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

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

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

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

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

Divide the Fractions

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

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

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

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

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

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

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

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

Evaluate each expression.

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

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

Application:

19) In 1993, about 6600 satellites were orbiting Earth. There were also about $\frac{25}{11}$ 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?