

Do Now:

f.) $(-2x^3/9) \cdot (-3x/4)$
 $\frac{-2x^3}{9} \cdot \frac{-3x}{4} = \frac{6x^4}{36}$

g.) $(r^6/3) \cdot (r^2y^3/11)$
 $\frac{r^6}{3} \cdot \frac{r^2y^3}{11} = \frac{r^8y^3}{33}$

Oct 5-11:54 AM

22, 24, 30, 32

22) $20 \cdot \frac{7}{8} \cdot 9$

$180 \cdot \frac{7}{8} = 157.5$

$157.5 \cdot 9 = 1417.5$

$45(15) = 675$

$\frac{675}{2} = 337.5$

$2 \overline{) 675.0}$
 $\underline{-640}$
 35
 $\underline{-350}$
 5
 $\underline{-50}$
 0

Oct 9-8:01 AM

24) $\frac{4}{7} \cdot \frac{5}{4} b^3 = \frac{4b \cdot 5b^3}{1 \cdot 1} = \frac{20b^4}{1} = 20b^4$

30) $\frac{2}{3} \cdot \frac{7}{10} \cdot \frac{7}{2} = \frac{1}{1} \cdot \frac{-1}{10} \cdot \frac{7}{2} = \frac{-7}{20}$

$\frac{2}{3} \cdot \frac{7}{10} \cdot \frac{7}{4} = \frac{1}{1} \cdot \frac{-1}{5} \cdot \frac{7}{4} = \frac{-7}{20}$

Oct 9-8:10 AM

32) PEMDAS

$\frac{99}{8} \cdot \frac{2}{17} + \frac{27}{34}$

$\frac{99}{17} \cdot \frac{2}{8} + \frac{27}{34}$

$\frac{99}{68} + \frac{27 \cdot 2}{68} = \frac{99 + 54}{68} = \frac{153}{68}$

Oct 9-8:15 AM

5.5 Dividing Fractions

7.NS.1
 7.NS.2
 7.EE

- SWBAT divide fractions.
- SWBAT identify the numerator and the denominator, understanding the importance of each.

• Calculators: No

Sep 30-2:37 PM

reciprocals- two nonzero numbers whose product is one $a \cdot b = 1$, where $a, b \neq 0$

Number	Reciprocal	Reason
5	$\frac{1}{5}$	$5 \cdot \frac{1}{5} = \frac{5}{5} = 1$
$-2/7$	$-\frac{7}{2}$	$-\frac{2}{7} \cdot -\frac{7}{2} = \frac{14}{14} = 1$
0.1	10	$\frac{1}{10} \cdot \frac{10}{1} = \frac{10}{10} = 1$

$\frac{1}{10}$

Sep 30-2:37 PM

Dividing Fractions (Keep Change Flip)

Words: To divide by any nonzero number, multiply by its reciprocal

Numbers: $\frac{2}{9} \div \frac{3}{7} = \frac{2}{9} * \frac{7}{3} = \frac{14}{27}$

Algebra: $\frac{a}{b} \div \frac{c}{d} = \frac{a}{b} * \frac{d}{c} = \frac{a*d}{b*c}$
 where $b \neq 0, c \neq 0$ and $d \neq 0$

Sep 30-2:38 PM

Find the quotient.

1.) $-2/5 \div 4/7$

Keep Change Flip
 $-\frac{2}{5} \div \frac{4}{7} = -\frac{2}{5} * \frac{7}{4} = \frac{-2}{5} * \frac{7}{2} = \frac{-7}{10}$
 $\frac{-2}{5} * \frac{7}{4} = \frac{-14}{20} = \frac{-7}{10}$

Sep 30-2:38 PM

2.) $4 \frac{1}{6} \div (-1 \frac{2}{3})$

$4 \frac{1}{6} \div -1 \frac{2}{3}$
 $\frac{25}{6} \div -\frac{5}{3}$
 $\frac{25}{6} * \frac{3}{-5} = \frac{5}{2} * \frac{1}{-1} = \frac{5}{-2} = \frac{-5}{2}$ *Same Answer*

Oct 5-11:57 AM

3.) $27 \div (-3/11)$

$27 \div \frac{-3}{11}$
 $\frac{27}{1} * \frac{11}{-3} = \frac{297}{-3} = -99$

Oct 5-12:18 PM

1.) $-2/3 \div -5/6$

2.) $-6 \frac{2}{3} \div 1 \frac{5}{9}$

3.) $(-16/21) \div -18$

$-\frac{16}{21} \div (-18)$
 $-\frac{16}{21} * \frac{1}{-18} = \frac{16}{189}$

Oct 5-11:57 AM

Kyle mixes 2 gallons (32 cups) of fruit punch for a cookout. If each of the tumblers he plans to serve the punch holds $2 \frac{1}{3}$ cups, how many tumblers can he fill?

$32 \div 2 \frac{1}{3}$
 $\frac{32}{1} \div \frac{7}{3}$
 $\frac{32}{1} * \frac{3}{7} = \frac{32(3)}{1(7)} = \frac{96}{7}$ cups

Sep 30-2:38 PM

Exit Pass 5.5

Explain why 0.25 and 4 are reciprocals.



$$4 \div 2 = 2 \quad 0.25 \times 2 = 0.5 \quad 0.5 \times 2 = 1$$

}

Sep 30-2:38 PM

"Don't blame the sea if you cannot catch a fish."

Working individually or with a partner, complete the worksheet.



Sep 30-2:39 PM

Reflection of Today's Lesson**5.5 Dividing Fractions**

7.NS.1
7.NS.2
7.EE

- SWBAT divide fractions.
- SWBAT identify the numerator and the denominator, understanding the importance of each.

Oct 5-11:59 AM

Homework

pg. 245 #3-15 all, 30, 31



Sep 30-2:39 PM