7th Grade
Oct 27, 2020

Please get out your THQ if you have not turned it in yet, and get out your video notes from Friday.

Today we will:
-review HW

I will need binder checks from Christopher, Gabe

HOMEWORK:

Video notes

ALEKS-60 minutes due by 11:59pm Nov 2

October 27, 2020

HOMEWORK

Name _____

Unit ____ Lesson _____ Due Date _____

Lesson 3 Homework Practice
Multiplying Rational Numbers

Find each product. Write in simplest form.

1. $\dfrac{3}{4} \cdot \dfrac{2}{3}$

2. $-\dfrac{3}{4} \cdot \dfrac{10}{27}$

3. $-50 \cdot \dfrac{3}{1000}$

4. $4\dfrac{4}{7} \cdot 9\dfrac{1}{3}$

5. $\dfrac{6m}{13} \cdot \dfrac{2}{mn}$

6. $\dfrac{4x}{3y} \cdot \dfrac{9y}{2x}$

7. $\dfrac{2a}{b} \cdot \dfrac{c}{2d}$

Evaluate each expression if $a = -\dfrac{5}{6}$, $b = -3\dfrac{3}{8}$, **and** $c = \dfrac{7}{10}$. **Write the product in simplest form.**

8. bc

9. ac

10. $4\dfrac{2}{5}c$

Lesson 4 Homework Practice
Dividing Rational Numbers

Find each quotient. Write in simplest form.

1. $\dfrac{1}{2} \div \dfrac{1}{10}$

2. $-\dfrac{3}{8} \div \dfrac{9}{24}$

3. $-1\dfrac{1}{2} \div \dfrac{1}{4}$

4. $-3\dfrac{2}{9} \div \dfrac{4}{27}$

5. $\dfrac{2x}{3} \div \dfrac{1}{9}$

6. $\dfrac{a}{4} \div \dfrac{a}{8}$

7. $\dfrac{4k}{5} \div \dfrac{25}{2k}$

8. $\dfrac{ab}{8} \div \dfrac{b}{a}$

9. Evaluate $x \div y$ if $x = 3\dfrac{1}{2}$ and $y = \dfrac{3}{4}$.

10. Evaluate $w \div z$ if $w = \dfrac{6}{7}$ and $z = 3$.

Lesson 3 Homework Practice

Multiplying Rational Numbers

Find each product. Write in simplest form.

1. $\frac{3}{4} \cdot \frac{2}{3}$ $\frac{1}{2}$

2. $\frac{3}{7} \cdot \frac{21}{39}$ $\frac{3}{13}$

3. $-\frac{3}{4} \cdot \frac{10}{27}$ $-\frac{5}{18}$

4. $\frac{11}{14} \cdot \frac{7}{33}$ $\frac{1}{6}$

5. $-\frac{18}{24} \cdot \frac{3}{4}$ $-\frac{9}{16}$

6. $\frac{9}{10} \cdot \frac{20}{21}$ $\frac{6}{7}$

7. $-50 \cdot \frac{3}{1000}$ $-\frac{3}{20}$

8. $\frac{16}{17} \cdot \left(-\frac{5}{8}\right)$ $-\frac{10}{17}$

9. $-\frac{1}{2} \cdot \left(-\frac{20}{27}\right)$ $\frac{10}{27}$

10. $-\frac{14}{15} \cdot \left(-\frac{10}{28}\right)$ $\frac{1}{3}$

11. $4\frac{4}{7} \cdot 9\frac{1}{3}$ $42\frac{2}{3}$

$\frac{32}{7} \cdot \frac{28}{3}$

12. $-2\frac{14}{25} \cdot \frac{3}{8}$ $-\frac{24}{25}$

13. $4\frac{1}{8} \cdot \left(-1\frac{5}{11}\right)$ -6

14. $-5 \cdot \frac{17}{25}$ $-3\frac{2}{5}$

15. $2\frac{9}{10} \cdot 1\frac{1}{5}$ $3\frac{12}{25}$

16. $\frac{6m}{13} \cdot \frac{2}{mn}$ $\frac{12}{13n}$

17. $\frac{p}{3} \cdot \frac{1}{q}$ $\frac{p}{3q}$

18. $\frac{2u}{v^2} \cdot \frac{3}{u}$ $\frac{6}{v^2}$

19. $\frac{4x}{3y} \cdot \frac{9y}{2x}$ 6

20. $\frac{2a}{b} \cdot \frac{c}{2d}$ $\frac{ac}{bd}$

21. $\frac{rs}{9t} \cdot \frac{3}{s^2}$ $\frac{r}{3st}$

22. $2x \cdot \frac{1}{4x^2}$ $\frac{1}{2x}$

23. $\frac{x^2}{4y} \cdot \frac{16y^2}{3x}$ $\frac{4xy}{3}$

24. $\frac{z}{r} \cdot \frac{3}{r}$ $\frac{6}{r^2}$

Handwritten work:
$\frac{m}{m}$ $\frac{2}{2}$ $\frac{100}{100}$ 1

$\frac{6m}{13} \cdot \frac{2}{mn} = \frac{12}{13n}$

$\frac{4x}{3y} \cdot \frac{9y}{2x} = \frac{6}{1} = 6$

Evaluate each expression if $a = -\frac{5}{6}$, $b = -3\frac{3}{8}$, and $c = \frac{7}{10}$. Write the product in simplest form.

25. bc $-2\frac{29}{80}$

26. ac $-\frac{7}{12}$

27. $4\frac{2}{5} c$ $3\frac{2}{25}$

28. $-2abc$ $-3\frac{15}{16}$

29. $-3\frac{3}{7} ab$ $-9\frac{9}{14}$

30. $2\frac{1}{9} abc$ $4\frac{5}{32}$

31. The fastest retired airliner, the Concorde, had the capability of cruising at speeds of up to 1450 mph. While cruising at this top speed, how far would the Concorde travel in $2\frac{1}{2}$ hours?   **3625 mi**

Lesson 4 Homework Practice

Dividing Rational Numbers

Find each quotient. Write in simplest form.

(1) 1. $\frac{1}{2} \div \frac{1}{10}$ **5**

(2) 2. $-\frac{3}{8} \div \frac{9}{24}$ **−1**

3. $-\frac{15}{16} \div \frac{7}{12}$ **$-1\frac{17}{28}$**

4. $\frac{17}{20} \div \left(-\frac{3}{10}\right)$ **$-2\frac{5}{6}$**

5. $-\frac{3}{8} \div \left(-\frac{3}{9}\right)$ **$1\frac{1}{8}$**

6. $\frac{25}{32} \div \frac{15}{56}$ **$2\frac{11}{12}$**

7. $0 \div \frac{17}{18}$ **0**

(3) 8. $-1\frac{1}{2} \div \frac{1}{4}$ **−6**

9. $\frac{8}{9} \div \frac{22}{81}$ **$3\frac{3}{11}$**

10. $8\frac{4}{9} \div 2\frac{1}{9}$ **4**

11. $4\frac{3}{5} \div \frac{2}{5}$ **$11\frac{1}{2}$**

12. $-\frac{100}{63} \div \frac{10}{81}$ **$-12\frac{6}{7}$**

13. $18\frac{1}{3} \div \left(-4\frac{1}{6}\right)$ **$-4\frac{2}{5}$**

(4) 14. $-3\frac{2}{9} \div \frac{4}{27}$ **$-21\frac{3}{4}$**

15. $-2\frac{5}{6} \div \frac{3}{51}$ **$-48\frac{1}{6}$**

16. $4\frac{11}{12} \div 4\frac{5}{6}$ **$1\frac{1}{58}$**

(5) 17. $\frac{2x}{3} \div \frac{1}{9}$ **6x**

(6) 18. $\frac{a}{4} \div \frac{a}{8}$ **2**

(7) 19. $\frac{4k}{5} \div \frac{25}{2k}$ **$\frac{8k^2}{125}$** $\frac{8kk}{125}$

(8) 20. $\frac{ab}{8} \div \frac{b}{a}$ **$\frac{a^2}{8}$**

21. $\frac{2c}{b} \div \frac{4a}{b}$ **$\frac{c}{2a}$**

22. $\frac{y}{x} \div y^2$ **$\frac{1}{xy}$**

23. $\frac{3st}{r} \div \frac{4t}{r}$ **$\frac{3s}{4}$**

24. $\frac{a^2}{b^2} \div \frac{c^2}{b^2}$ **$\frac{a^2}{c^2}$**

25. $-\frac{2x}{y} \div \frac{4}{y}$ **$-\frac{x}{2}$**

26. $\frac{m^2}{2np} \div \frac{n}{4p}$ **$\frac{2m^2}{n^2}$**

(9) 27. Evaluate $x \div y$ if $x = 3\frac{1}{2}$ and $y = \frac{3}{4}$.   **$4\frac{2}{3}$**

(10) 28. Evaluate $w \div z$ if $w = \frac{6}{7}$ and $z = 3$.   **$\frac{2}{7}$**

29. What is the average speed that Robin must drive to reach her friend's house 170 miles away in $2\frac{1}{2}$ hours?   **68 mph**

30. How many choir robes can be made from $20\frac{1}{4}$ yards of fabric if each robe needs $1\frac{1}{8}$ yards?   **18 choir robes**

K C F

(7) $\frac{4k}{5} \cdot \frac{2k}{25} = \frac{8kk}{125} = \frac{8k^2}{125}$

Math Chapter 3

TITLE:
Operations with Rational Numbers

Date	Lesson	Topic/Assignment
10-19	1	Fractions and Decimals Video Notes
10-20	1	HW WS
10-20	1	HW Practice WS (in-class)
10-21	2	Rational Numbers Video Notes
10-21	2	HW WS
10-22	2	Number Sets Notes
10-23	2	Packet
10-23	3	Multiply and Divide Fractions VN
10-26	3	HW Practice WS