

Accentuate the Negative Investigation 3 Review

Name **Key**

Date: _____

Period _____

Common Core State Standards

7.NS.2

Learning Targets

I can solve multiplication problems involving rational numbers. Grade _____

I can solve division problems involving rational numbers. Grade _____

Multiplication and Division of Rational Numbers

1) 9×7

63

2) $3 \cdot 20$

60

3) 2.5×3.2

8

$$\begin{array}{r} 2.5 \\ \times 3.2 \\ \hline 50 \\ + 750 \\ \hline 800 \end{array}$$

4) -5×-3

15

5) -3×-11

33

6) $-3\frac{1}{4} \cdot (-\frac{1}{4}) = -\frac{13}{4} \cdot -\frac{1}{4}$

$\frac{13}{16}$

9) $-\frac{1}{6} \times \frac{3}{4} = -\frac{3}{24}$

$-\frac{1}{8}$

12) $\frac{5}{6} \div \frac{1}{4} = \frac{5}{6} \times \frac{4}{1} = \frac{20}{6}$

$3\frac{1}{3}$

7) $-6 \cdot 14$

-84

8) $5 \cdot (-30)$

-150

10) $12 \div -2$

-6

11) $525 \div 10$

52.5

13) $-68 \div (-4)$

17

14) $-36 \div (-4)$

9

15) $-5.25 \div (-.25)$

$$\begin{array}{r} 021 \\ 25 \overline{) 5.25} \\ \underline{50} \\ 25 \\ \underline{25} \\ 0 \end{array}$$

21

16) $-10 \div 10$

-1

17) $36 \div (-6)$

-6

18) $2\frac{3}{5} \div (-\frac{1}{4}) = \frac{13}{5} \times -\frac{4}{1} = -\frac{52}{5}$

$-10\frac{2}{5}$

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19). A football team loses an average of 5 yards per play. How many yards have they lost after 3 plays? Write a number sentence to show your answer.

$$-5(3) = -15$$

They lost 15 yds. (-15)

20). Together, siblings, Ashton, Andrew, Nora and Kora owe their parents \$120. Write a number sentence to show how much each sibling owes if each sibling shares the debt equally. (Be sure to use negative numbers where appropriate.)

$$-120 \div 4 = -30$$

They each owe \$30 (-\$30).

For Exercises 21-24, find the value.

21. $8 - 12$ -4

22. $16 - (-9)$ 25

23. $-2.5 - (-7.5)$ 5

24. $-9 + 25$ 16