Review for Rational Numbers Test...

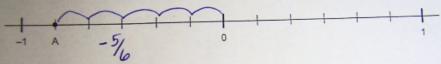
1. Which numbers are rational numbers?

$$-5.4, \frac{7}{6}, 11, -\frac{1}{4}$$

2. Identify the number that is NOT equal to the other three numbers.

$$\frac{-5}{8}$$
, $\frac{5}{-8}$, $\frac{-5}{-8}$ $-\frac{5}{8}$

3. Which rational number is represented by the letter A on the number line?



4. Order the numbers from least to greatest.

$$-0.4, -0.4, -0.44$$

5. Which of these numbers are between -2.4 and -3.9?

6. Which of these numbers are between $\frac{4}{6}$ and $\frac{7}{5}$?

$$\frac{5}{6}$$
, $\frac{1}{5}$, $\frac{7}{8}$, $\frac{4}{5}$

7. Determine this sum.

$$(-2.5) + (-6.1)$$

- 8. Estimate to determine which sum is greater than 0.
 - i) 5.8 + (-7.7)
 - ii) -1.1 + (-1.8)
 - iii) -3.3 + 3.6
 - iv) -3.6 + 2.8
 - 9. Determine this sum.

$$\frac{14}{7} + \left(-\frac{15}{14}\right)$$

- 10. A student first borrowed \$40.25, then borrowed another \$15.75 from his father. He then paid back \$20.75. How much does he still owe his father?
- 11. Which expression has the least sum?
 - i) 9.43 + 6.05
 - ii) -9.43 + 6.05
 - iii) 9.43 + (-6.05)
 - iv) -9.43 + (-6.05)

- 12. Yesterday, the temperature of a freezer was -18,1. When the technician checked the freezer today temperature had decreased by 1/. 2 Determine the temperature of the freezer today.
- 13. Determine this difference.

$$\frac{18}{7} - \left(-\frac{5}{7}\right)$$

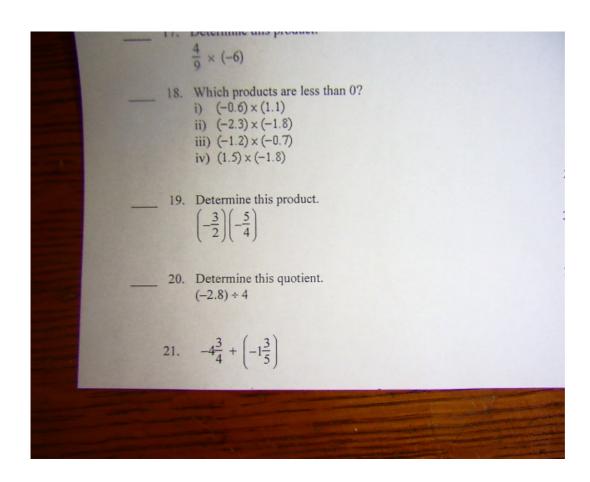
- b. $-\frac{13}{7}$ c. $-\frac{23}{7}$ d. $\frac{13}{7}$
- 14. Which expression has the same answer as $-\frac{3}{4} \left(-\frac{7}{8}\right)$?

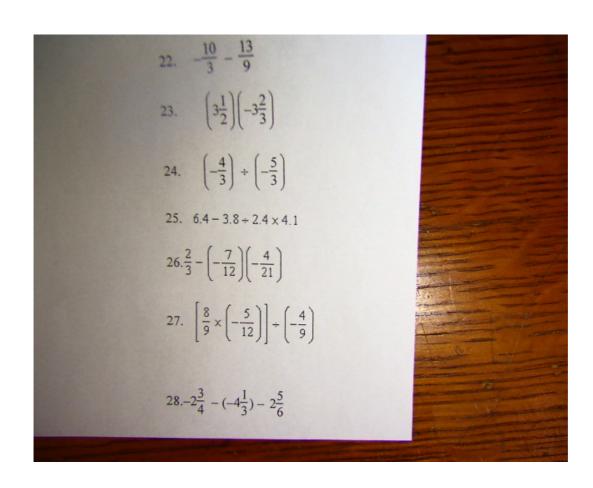
- b. i
- d. iii

a. ii b. i c. iv d. iii

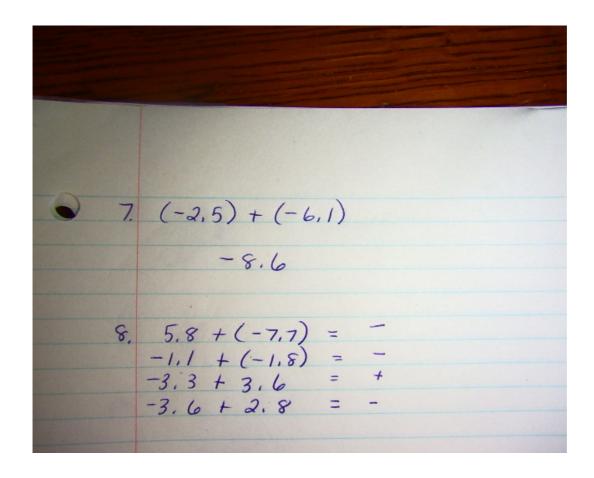
15. Determine this difference. $-\frac{3}{4} - \frac{7}{8}$ 16. The temperature at the top of a mountain is 10.5° C less than the temperature at the base of the temperature at the base is -4.4° C, what is the temperature at the top?

17. Determine this product. $\frac{4}{9} \times (-6)$ 22. $-\frac{10}{3} - \frac{13}{9}$ 24. $(3\frac{1}{2})(-3\frac{2}{3})$ 25. $(3\frac{1}{2})(-3\frac{2}{3})$ 26. $(-\frac{4}{3}) \div (-\frac{5}{3})$ 27. Determine this products are less than 0?
28. Which products are less than 0?
29. $(3\frac{1}{2})(-3\frac{2}{3})$ 20. $(3\frac{1}{2})(-3\frac{2}{3})$ 21. $(3\frac{1}{2})(-3\frac{2}{3})$ 22. $(3\frac{1}{2})(-3\frac{2}{3})$ 23. $(3\frac{1}{2})(-3\frac{2}{3})$ 24. $(-\frac{4}{3}) \div (-\frac{5}{3})$ 25. $(3\frac{1}{2})(-\frac{4}{3})$ 26. $(3\frac{1}{2})(-\frac{4}{21})(-\frac{4}{21})$



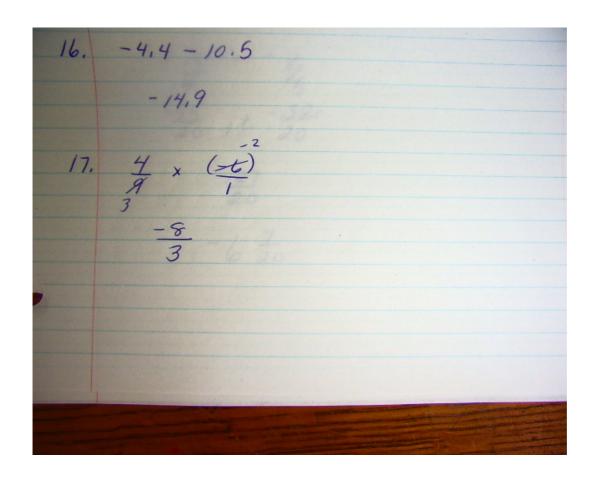


6. 4/6		75	
0.6		1.4	
5 = 0.83	15		
1 = 0.2	×		
7 = 0.875			
$\frac{8}{4} = 0.8$	~		



9. 14 + (-15)
$\frac{28}{14} + \left(\frac{-15}{14}\right)$
13 14
1040.25 -15.75 + 20.75
-3 5,25
11. 9.43 + 6.05 -9.43 + 6.05 9.43 + -6.05 -9.43 + -6.05 = -15.48 (least)

12.	-18.1 -11.2 -29.3
13	<u>23</u> 7
14.	
15.	$\frac{-3}{4} - \frac{7}{8}$
	-6 - 7 8
	<u>-13</u>



18. i) - less than zew

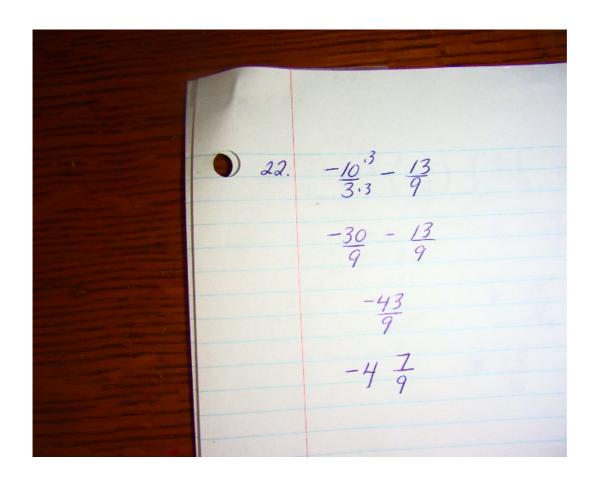
iii) +
iii) +
iii) +
iv) - less than zew.

19.
$$\left(-\frac{3}{2}\right)\left(-\frac{5}{4}\right)$$
+15/8

20. $\left(-2.8\right)$: 4
-0.7

$$\begin{array}{r}
21. -4 \frac{3}{4} + -1 \frac{3}{5} \\
-19 + -8 \\
4 + 5 \\
-95 \\
20 + -32 \\
20 \\
-127 \\
20 \\
-6 \frac{7}{20}$$

$$\begin{array}{r}
21. -4\frac{3}{4} + -1\frac{3}{5} \\
-\frac{19}{4} + -8\frac{5}{5} \\
-\frac{95}{20} + -32\frac{2}{20} \\
-\frac{127}{20} \\
-6\frac{7}{20}
\end{array}$$



23		
	-77 6 -12 5	ά
24.	$\begin{pmatrix} -\frac{4}{3} \end{pmatrix} \div \begin{pmatrix} -\frac{5}{3} \end{pmatrix}$ $-\frac{4}{3} \times -\frac{3}{5}$ $\frac{4}{5}$	

25.
$$6.4-3.8 \div 2.4 \times 4.1$$
 $6.4-1.58 \times 4.1$
 $6.4-6.5$
 -0.1

26. $\frac{2}{3} - \left(\frac{1}{4}\right)\left(\frac{1}{2}\right)$
 $\frac{1}{3} - \left(\frac{1}{9}\right)$
 $\frac{1}{9} - \left(\frac{1}{9}\right)$
 $\frac{1}{9} - \left(\frac{1}{9}\right)$

