

NAME _____

DATE _____

Review Sheet for Test 2 (Lessons 11 - 20) SHOW ALL WORK
 Complete EVENS ONLY for Homework on Monday 10/24

<p>1) $5 \frac{2}{15} \cdot \frac{3}{123}$</p> $\frac{2}{15}$	<p>2) $\left(\frac{3}{10}\right) + \left(\frac{4}{9}\right) \left(-6\frac{3}{4}\right) + \left(4\frac{2}{3}\right)$</p> $3 \times \frac{-27}{3 \times 4} + \frac{14 \times 4}{3 \times 4}$ $\frac{-81}{12} + \frac{56}{12} = \frac{-25}{12} = \left(-2\frac{1}{12}\right)$
<p>3) $\left(-3\frac{2}{5}\right) \div \left(4\frac{4}{9}\right)$</p> $\frac{-17}{5} \div \frac{40}{9}$ $\frac{-17}{5} \cdot \frac{9}{40} = \left(\frac{-153}{200}\right)$	<p>4) $-1\frac{13}{15} - \frac{1}{4}$</p> $4 \times \frac{-28}{4 \times 15} - \frac{1 \times 15}{4 \times 15}$ $\frac{-112}{60} + \frac{-15}{60} = \frac{-127}{60} = \left(-2\frac{7}{60}\right)$
<p>5) $5 - 3.45 + 4.623$</p> $\begin{array}{r} 5 \\ 4.623 \\ + -3.450 \\ \hline 1.173 \end{array}$	<p>6) $8.9 - (-3.67)$</p> $\begin{array}{r} 8.9 \\ + 3.67 \\ \hline 12.57 \end{array}$
<p>7) -2.971×7.3</p> $\begin{array}{r} 2.971 \\ \times 7.3 \\ \hline 8913 \\ 207970 \\ \hline 216883 \end{array}$ $\left(-21.6883\right)$	<p>8) $\frac{-0.36}{0.9} = -0.36 \div 0.9$</p> $\begin{array}{r} 0.9 \overline{) 0.36} \\ \underline{-0.36} \\ 0 \end{array}$ $\left(-0.4\right)$

Change the following numbers to fractions. Leave your answer in simplest form!!
Show all necessary work!!

<p>9) $.0862$</p> $\frac{862}{10,000} \div 2 = \frac{431}{5,000}$ <p style="text-align: center;">$\frac{431}{5,000}$ (circled)</p>	<p>10) 3.14</p> $3 \frac{14}{100} \div 2 = 3 \frac{7}{50}$ <p style="text-align: center;">$3 \frac{7}{50}$ (circled)</p>
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Change the following fractions to decimals. Show all necessary work!!
Round to nearest thousandth, if necessary.

<p>11) $\frac{5}{8}$</p> <p style="text-align: center;">$.625$ (circled)</p> $\begin{array}{r} 625 \\ 8 \overline{) 5.000} \\ \underline{48} \\ 20 \\ \underline{16} \\ 40 \\ \underline{40} \\ 0 \end{array}$	<p>12) $\frac{17}{7}$</p> <p style="text-align: center;">-1.429 (circled)</p> $\begin{array}{r} 1.4285 \\ 7 \overline{) 17.0000} \\ \underline{14} \\ 30 \\ \underline{28} \\ 20 \\ \underline{14} \\ 60 \\ \underline{56} \\ 40 \end{array}$
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13) REVIEW: Write the property being shown:

a. $\left(\frac{16}{19}\right)\left(\frac{19}{16}\right) = 1$

multiplicative inverse

b. $2(6+7) = 2 \cdot 6 + 2 \cdot 7$

Distributive

c. $(5+4)+3 = 5+(4+3)$

associative property of addition

d. $\left(\frac{16}{19}\right) + \left(\frac{-16}{19}\right) = 0$

additive inverse

14) Evaluate: SHOW ALL WORK!

a. $7 \cdot 8 + 9 \div (-3) \cdot 4$

$$56 + 9 \div (-3) \cdot 4$$

$$56 + (-3) \cdot 4$$

$$56 + (-12)$$

44 (circled)

b. $|4-9| - (-25) \div 5 \cdot 2 + (-1)$

$$|-5| + (+25) \div 5 \cdot 2 + (-1)$$

$$5 + 25 \div 5 \cdot 2 + (-1)$$

$$5 + 5 \cdot 2 + (-1)$$

$$5 + 10 + (-1)$$

$$15 + (-1)$$

14 (circled)

- 15) Erica buys a 20 ounce box of cereal. How many $1\frac{1}{4}$ ounce serving are there in the box?

What operation(s) will you use? Division

$$20 \div 1\frac{1}{4} \rightarrow \frac{20}{1} \cdot \frac{4}{4} = 16 \text{ Servings}$$

$$\frac{20}{1} \div \frac{5}{4}$$

- 16) Kristen read $\frac{1}{2}$ of a book on Saturday night and $\frac{4}{7}$ of the book on Sunday night. How much of the book does Judy have left to read?

What operation(s) will you use? addition + Subtraction

$$\frac{1}{2} + \frac{4}{7}$$

$$\frac{7}{14} + \frac{8}{14} = \frac{15}{14}$$

how much she read.

She has $\frac{1}{14}$ left

- 17) Amir goes to the deli counter and buys $2\frac{3}{4}$ lbs of turkey at \$7.00 per pound and $1\frac{1}{2}$ lbs of cheese at \$4 per pound. What is the total amount that he spent at the deli counter?

What operation(s) will you use? _____

$$2\frac{3}{4} \cdot 7$$

$$\frac{11}{4} \cdot 7 = \frac{77}{4} = \$19.25$$

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

$$\frac{3}{2} \cdot 4 = \$6$$

$$\$19.25$$

$$+\$6.00$$

$$\hline \$25.25$$

\$25.25

- 18) **REVIEW:** What number sets do I belong to? Use as many as applies.
(counting/natural #'s, whole #'s, integers, rational #'s, real #'s)

- a) 1 natural, whole, integer, rational, real
- b) 0 whole, integer, rational, real
- c) -45 integer, rational, real
- d) $\frac{65}{1}$ rational, real
- e) $\frac{-3}{7}$ rational, real

- 19) **TEMPERATURE** The highest recorded temperature on Earth was recorded in Africa at 136°F , while the lowest was -129°F in Antarctica. What is the range of temperatures recorded on Earth? Use the distance formula $|p - q|$.

$$136 - (-129)$$

$$136 + 129$$

$$\begin{array}{r} 136 \\ +129 \\ \hline 265 \end{array}$$

265°

- 20) A submarine hovers at 240 meters below sea level. If it descends 160 meters and then ascends 390 meters, what is its new position?

$$-240 - 160 + 390$$

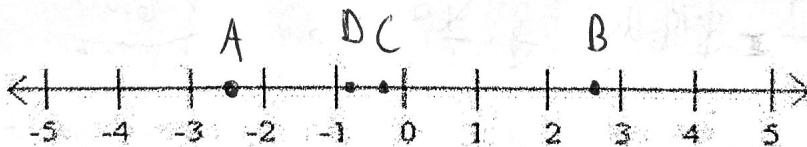
$$-240 + (-160) + 390$$

$$-400 + 390$$

-10 ft

- 21) Place the following numbers onto the number line below:

A $-2\frac{1}{2}$ B 2.62 C $-\frac{1}{8}$ D -0.75



- 22) Use $>$, $<$, and $=$ to compare the following numbers:

a) $\frac{3}{5}$ $<$.65

b) $-.30$ $>$ $-\frac{1}{3}$ $0.\overline{33}$

c) $-2\frac{1}{5}$ $<$ -1.75