

Test outline (Practice Test) Unit 3 Test REVIEW on Decimals

Math 6

Name: \_\_\_\_\_

1. Write the expanded decimal form & the written form of  
 a. 3.250 006      b) 0.200 5

$$3 + 0.2 + 0.05 + 0.000006$$

3 and two-hundred fifty thousandths six millionths

$$0.2 + 0.0005$$

two tenths five ten thousandths

2. HOW ARE THE VALUES OF THE 4'S IN EACH NUMBER RELATED?

a) 0.405 436

tenths ten-thousandths

4 tenths is 1000 times larger than 4 ten-thousandths

3. ESTIMATE EACH PRODUCT AND QUOTIENT. REMEMBER TO SHOW YOUR WORK

a.  $21.2 \times 5 =$

$$20 \times 5 = 100$$

B.  $37.7 \div 6 =$

$$36 \div 6 = 6$$

c)  $7.57 \times 4 =$

$$8 \times 4 = 32$$

$$7 \times 4 = 28$$

4. ESTIMATE TO PLACE THE DECIMAL POINT. REMEMBER TO SHOW YOUR WORK

a.  $11.62 \times 3 = 38.46$

Estimate:  $12 \times 3 = 36$

b.  $1.368 \times 7 = 9.576$

Estimate:  $1 \times 7 = 7$

5. MULTIPLY. REMEMBER TO SHOW YOUR WORK

a.  $21.68 \times 7$

$$\begin{array}{r} 21.68 \\ \times 7 \\ \hline 151.76 \end{array}$$

b)  $0.054 \times 5$

$$\begin{array}{r} 0.054 \\ \times 5 \\ \hline 0.270 \end{array}$$

c)  $8.627 \times 7$

$$\begin{array}{r} 8.627 \\ \times 7 \\ \hline 60.389 \end{array}$$

d)  $0.415 \times 9$

$$\begin{array}{r} 0.415 \\ \times 9 \\ \hline 3.735 \end{array}$$

6. ESTIMATE TO CHOOSE THE CORRECT QUOTIENT FOR EACH DIVISION QUESTION

| Question           |       | Possible Quotients |        | Estimate here   |
|--------------------|-------|--------------------|--------|-----------------|
| a) $17.836 \div 7$ | 2.548 | 0.2548             | 25.48  | $21 \div 7 = 3$ |
| b) $9.42 \div 2$   | 471   | 0.471              | 4.71   | $10 \div 2 = 5$ |
| c) $72.72 \div 8$  | 0.909 | 90.9               | 9.09   | $72 \div 8 = 9$ |
| d) $45.62 \div 5$  | 9.124 | 91.24              | 0.9124 | $45 \div 5 = 9$ |

7. DIVIDE. ESTIMATE TO PLACE THE DECIMAL POINT. REMEMBER TO SHOW YOUR WORK

(6 points)

a.  $23.905 \div 7$

Estimate:

$21 \div 7 = 3$

Show work for actual

$$\begin{array}{r} 3.415 \\ 7 \overline{) 23.905} \\ \underline{-21} \phantom{00} \\ 29 \phantom{00} \\ \underline{-28} \phantom{00} \\ 10 \phantom{00} \\ \underline{-7} \phantom{00} \\ 35 \phantom{00} \\ \underline{-35} \\ 0 \end{array}$$

b.  $62.36 \div 2 =$

Estimate:

$62 \div 2 = 31$

Show work for actual

$$\begin{array}{r} 31.18 \\ 2 \overline{) 62.36} \\ \underline{62} \phantom{00} \\ 03 \phantom{00} \\ \underline{02} \phantom{00} \\ 13 \phantom{00} \\ \underline{12} \phantom{00} \\ 16 \phantom{00} \\ \underline{16} \\ 0 \end{array}$$

9) Find the actual quotient

a)  $0.0944 \div 4$

$$\begin{array}{r} 0.0236 \\ 4 \overline{) 0.0944} \\ \underline{8} \phantom{00} \\ 14 \phantom{00} \\ \underline{12} \phantom{00} \\ 24 \phantom{00} \\ \underline{24} \\ 0 \end{array}$$

b)  $0.16 \div 2 =$

$$\begin{array}{r} 0.08 \\ 2 \overline{) 0.16} \\ \underline{16} \\ 0 \end{array}$$

10) Jim paid \$11.85 for 3 juice. Leo paid \$21.72 for 6 juice. Who got the better deal on their drinks?

$11.85 \rightarrow$  for 3 juice  
 $\times 2$   
 $\$23.70 \rightarrow$  for 6 ju

Jim will pay \$23.70 for six juice  
 So Leo Better  
 Or

$$\begin{array}{r} 3.95 \\ 3 \overline{) 11.85} \\ \underline{9} \phantom{00} \\ 28 \phantom{00} \\ \underline{27} \phantom{00} \\ 15 \phantom{00} \\ \underline{15} \\ 0 \end{array}$$

Jim pays \$3.95 each juice

$$\begin{array}{r} 3.62 \\ 6 \overline{) 21.72} \\ \underline{18} \phantom{00} \\ 37 \phantom{00} \\ \underline{36} \phantom{00} \\ 12 \phantom{00} \\ \underline{12} \\ 0 \end{array}$$

Leo pays  
 $\$3.62$  per juice  
 So Leo is Better