## **Practical Mathematics**

### **Decimal Fractions & Money**



573 Ones digit: 3x1

**573** Tens digit: 7x10

## **573** Hundreds digit: 5x100

As you move to the *left* the multiplier of the digit is 10 times the prior one As you move to the *right*, the multiplier of the digit is one tenth of the prior one

What happens as we move left of the ones digit?

We get a decimal fraction

23.7218

## 23.7218 Tens digit: 2x10

23.7218 Ones digit: 3x1

### 23.7218 Tenths digit: 7x1/10

## 23.7218 Hundredths digit: 2x1/100

## 23.7218 Thousandths digit: 1x1/1000

	Decimal Fractions	
	7548 + 304 + 1866 + 4	
7548	7548	7548
304	304	304
1866	1866	1866
4	4	4

**Decimal Fractions** 145.322 + 0.746 + 1.3 + 17.0604145.322 145.322 145.322 145.322 0.746 0.746 0.746 0.746 1.3 1.3 1.3 1.3 17.0604 17.0604 17.0604 17.0604

**Decimal Fractions** 2.4 x3.07 

**Decimal Fractions** 2.4 <u>x3.07</u> 

**Decimal Fractions** 2.4 <u>x3.07</u> 168 000 7200 7.368

# Division of Decimals 22.46732 / 3.191

### 3.191 22.46732



3191 22467.32

7 3191 22467.32 <u>22337</u> 130

7.04 3191 22467.32 <u>22337</u> 130 32 <u>127 64</u> 2 68

7.04 08 3191 22467.32 22337 130 32 <u>127 64</u> 2 68 00 <u>2 5528</u> 1172

### Rounding

Decide how many decimal places you need, then look at the digit just to the right of the last place you need.

- If it is less than 5, drop the rest of the decimal places.
- If it is 5 or more, add 1 to the last digit you need, then drop the rest of the decimal places.





## Fractions to Decimals 5/16

0.31 16 5.0000 <u>48</u> 20 <u>16</u> 40

Fractions to Decimals 5/16	
0.3125 16 5.0000	
<u>48</u>	
20	
<u>16</u>	
40	
32	
80	
80	
0	
	28

ractions to 1/	o Decimals 7
0.142857	
7 1.000000	
7	60
30	<u>56</u>
20	40
<u>20</u>	35
20	50
<u>14</u>	49
60	1

Fractions to Decimals  $\cdot 1/7 = 0.142857$  $\cdot 1/3 = 0.\overline{3}$  $\cdot 1/9 = 0.1$  $\cdot 1/11 = 0.09$ 

Decimals to Fractions Finite Length Decimals  $0.3125 \rightarrow 3125/10000 \rightarrow 5/16$ 

 $0.25 \rightarrow 25/100 \rightarrow 1/4$ 

 $0.025 \rightarrow 25/1000 \rightarrow 1/40$ 

Decimals to Fractions Infinite Repeat Decimals  $0.\overline{3} \rightarrow 3/9 \rightarrow 1/3$ 

 $0.\overline{142857} \rightarrow 142857/999999 \rightarrow 1/7$ 

 $0.08\overline{3} \rightarrow 8.\overline{3}/100 \rightarrow (8\ 1/3)/100$  $\rightarrow 25/300 \rightarrow 1/12$ 

#### Money What It Is, and Its History

Money is like time: We all know what it is *until we have to define it!*Money is anything that can serve as:
A store of value
A unit of account
A medium of exchange

### Money What It Is, and Its History

- Ideally, what is used for money should be:
- High in replacement cost
- Durable/non-perishable
- Convenient to exchange

### Money What It Is, and Its History

- Amber
- Beads
- Cowries
- Drums
- Eggs
- Feathers
- Gongs

- Hoes
- Ivory
- Jade
- Kettles
- Leather
- Mats
- Nails

- •Oxen
- Pigs
- Quartz
- Rice
- Salt
- UmiaksVodka

- Wampum
   Yarns
  - Zappozats (decorated axes)
  - And many more

### Money Functions of Money

Specific (Usually microeconomic):

- Concrete Functions
  - Medium of Exchange
  - Means of Payment
  - Storage of Value
- Abstract Functions
  - Unit of Account
  - Common Measure of Value
  - Standard for Deferred Payments

General Functions (Generally macroeconomic and abstract)

- Liquid Asset
- Framework of the Market Allocative System (i.e. prices)
- Causative Factor in the Economy
- Controller of the Economy

### **Biblical Personal Finance**

- Realize it's not yours in the first place God owns it all, including you. It is all His, and you are His steward
  Recognize responsibility As stewards of God's resources, we need to use them as He would, and use them responsibly
- Remember God first
   What He gives us is intended to care for us, for our families, but we need to
   remember Him and His Kingdom first of all
- Reign in spending This not only involves cutting back on frivolous spending, but also avoiding a lavish lifestyle. I am here to serve God, not keep up with my neighbors
- Ready your future
  - Prepare ahead; have a cushion for emergencies, and save for retirement
- Respect others
  - Prosperity is given to me so that I can bless others by recognizing their needs and helping to meet them