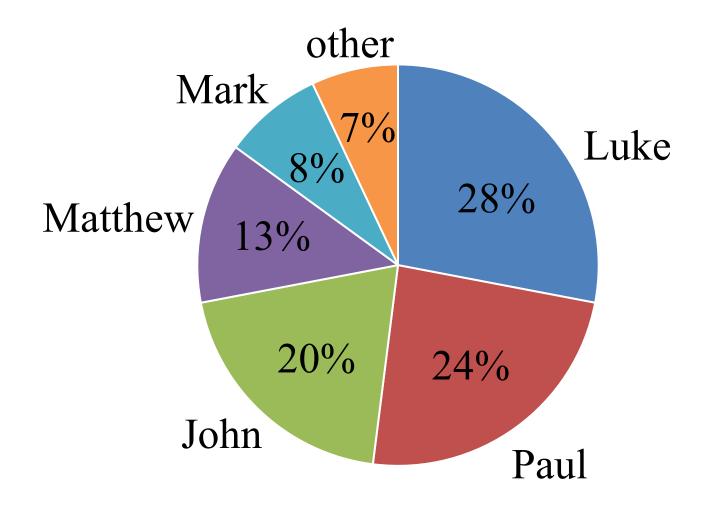
Math & the Biblε

Joe Vasta Ph.D., Mathematics



Who wrote the largest part of the New Testament?





Why the Bible?

Answer: It's unique in...

- 1. Continuity 66 >40 1500 3 3
- 2. Circulation >5,000,000,000 38
- 3. Translation >700 >1500
- 4. Prophecies predictions about the future
- 5. History BC AD
- 6. Character
- 7. Influence on Literature & Civilization
- 8. Survival through Time, Persecution, and Criticism.









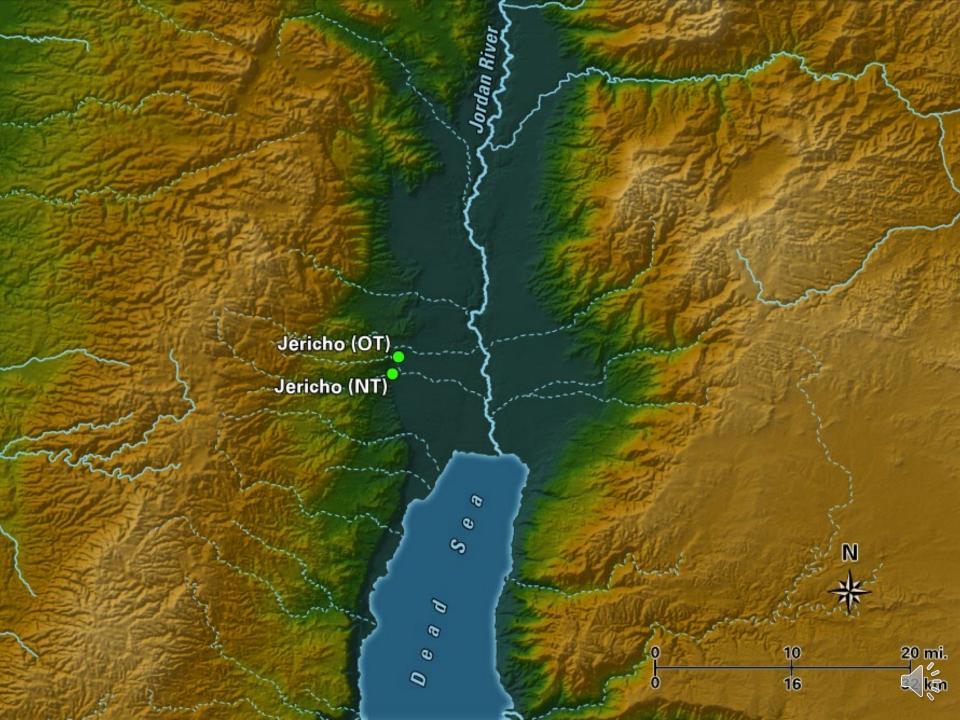


Isaiah 2018







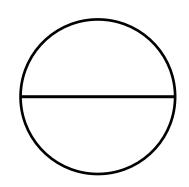




Does the Bible say that $\pi = 3$?

This information is found in the paper, "On the Rabbinical Approximation of π " by Boaz Tsaban and David Garber.

$$\frac{\text{circumference}}{\text{diameter}} = \pi = 3.14159265358979323...$$



1st Kings 7:23

And he made a molten sea, **ten** cubits from the one brim to the other: it was round all about, and his height was five cubits: and a line of **thirty** cubits did compass it round about.



1st Kings 7:23
$$\rightarrow \frac{\text{circumference}}{\text{diameter}} = \frac{30}{10} = 3$$

Is this an error in the Bible?



The Book of Kings was edited by the ancient Jews as religious work about 550 B.C., but its sources date back several centuries. At that time, π was already known to a considerably better accuracy, but evidently not to the editors of the Bible...The 'people of the world' say $\pi = 3$ 1/7, but the scriptures say $\pi = 3$.

A History of π , Petr Beckmann, 1971



original Hebrew text used a variation of the word "circumference"

marginal annotation had a common spelling of "circumference"

1 /2	(qav)

Aleph	*	1
Bet	Л	2
Gimmel	٦	3
Dalet	7	4
Hey	ſ:	5
Vav	~	6
Zayin	} ~	7
Chet	C	8
Tet	G	9
Yod	7	10
Kaf	٦, ٦	20

Lamed	۲	30	
Mem	ם,מ	40	
Nun	1, 7	50	
Samekh	Q	60	
Ayin	ע	70	
Pey	อ, ๆ	80	
Tsade	¥, Y	90	
Qof	٦	100	
Resh	ſ	200	
Shin	a	300	
Tav	ת	400	



$$\pi = 5$$
, $\gamma = 6$, $\tau = 100$

$$\frac{7+1+7}{1+7}$$
 $\frac{111}{106}$ \leftarrow adjustment ratio

circumference of thirty cubits

$$\begin{array}{ccccc}
 & \downarrow & \downarrow \\
 & \frac{111}{106} & \times & 30 & \approx 31.4150943
\end{array}$$

1st Kings 7:23
$$\rightarrow \frac{\text{circumference}}{\text{diameter}} \approx \frac{31.4150943}{10} = 3.14150943$$

 1^{st} Kings 7:23 \rightarrow 3.14150943 (6th century B.C.)

"the people of the world" \rightarrow 3.14285714

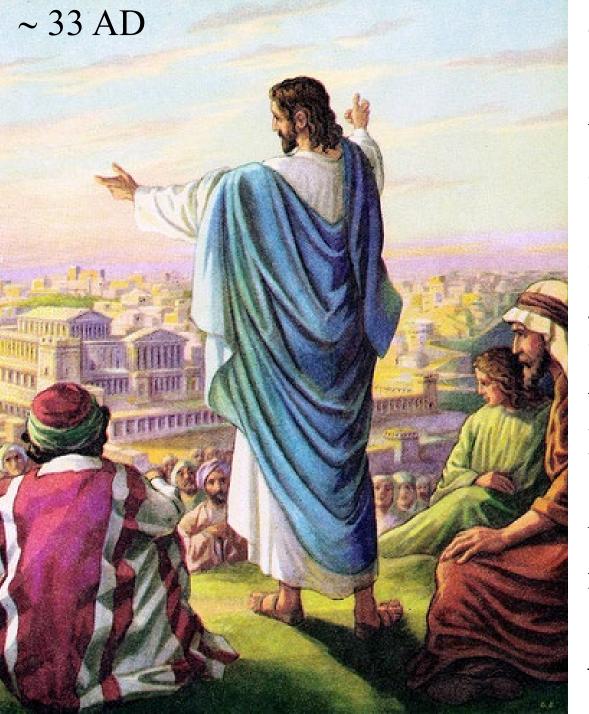
This biblical accuracy of π was not obtained until the 5th century A.D. in China.

This was more accurate than Fibonacci's approximation of π . (13th century A.D.)

Europe didn't achieve this accuracy until after the 14th century A.D.







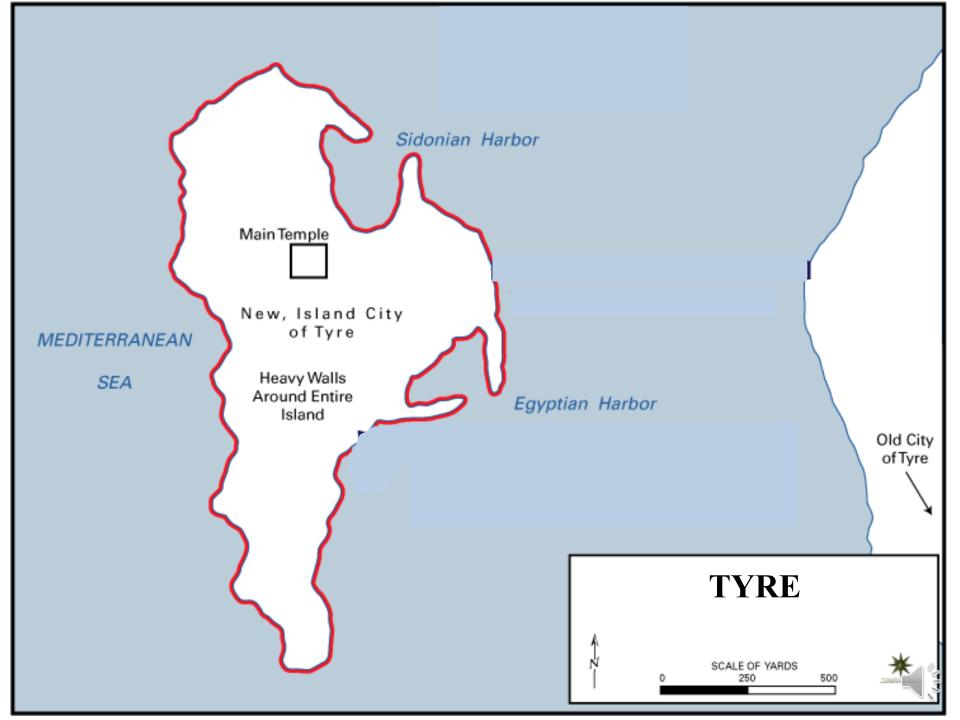
Then Jesus went out and departed from the temple, and His disciples came up to show Him the buildings of the temple. And Jesus said to them, "Do you not see all these things? Assuredly, I say to you, not one stone shall be left here upon another, that shall not be thrown down."

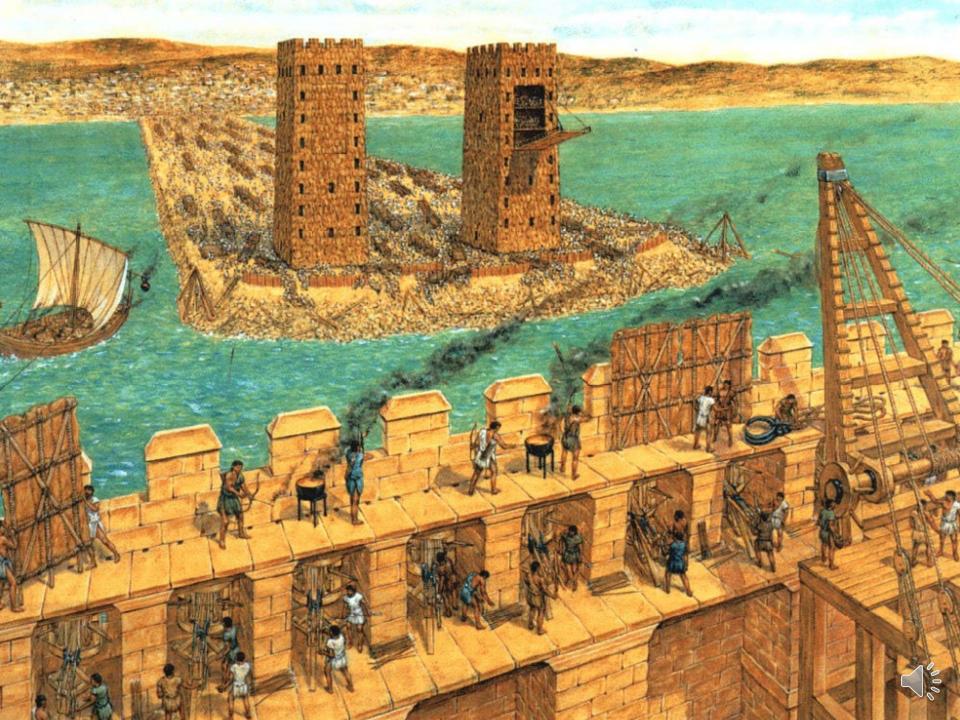
- Matt. 24:1-2











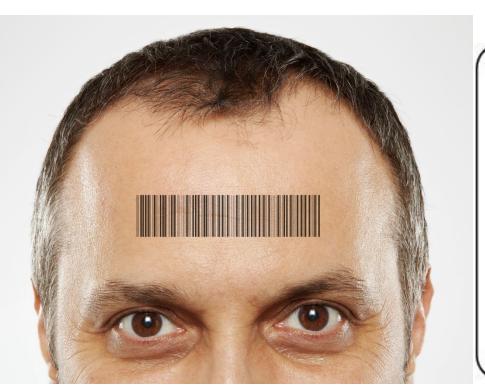






Revelation 13:16-17

He causes all, both small and great, rich and poor, free and slave, to receive a mark on their right hand or on their foreheads, and that no one may buy or sell except one who has the mark or the name of the beast, or the number of his name.



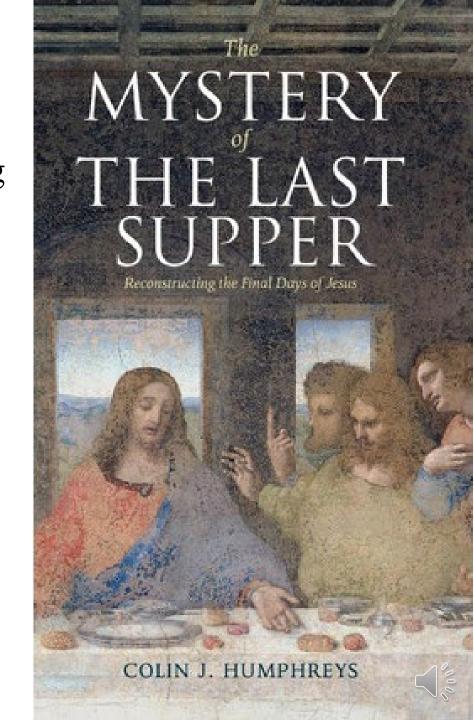


70 Weeks



In 1983 Cambridge physicist
Sir Colin Humphreys, working
with Oxford astrophysicist
Graeme Waddington,
calculated that Jesus died on
April 3, 33 AD.

You can find this information in the 2011 book titled, "The Mystery of The Last Supper."



The Prophet Daniel



605 BC: Daniel was taken captive from Jerusalem to Babylon.

586 BC: Jerusalem destroyed.

539 BC: Persian Empire conquered Babylonian Empire.



Daniel Chapter 9



"Seventy weeks are determined for your people and for your holy city . . . know therefore and understand, that from the going forth of the command to restore and build Jerusalem until Messiab the Prince, there shall be seven weeks and sixtytwo weeks . . . and after the sixty-two weeks Messiah shall be cut off, but not for Himself."

70 weeks = 7 weeks + 62 weeks + 1 week



$$7 + 62 = 69$$
 "weeks"

1 decade = 10 consecutive years

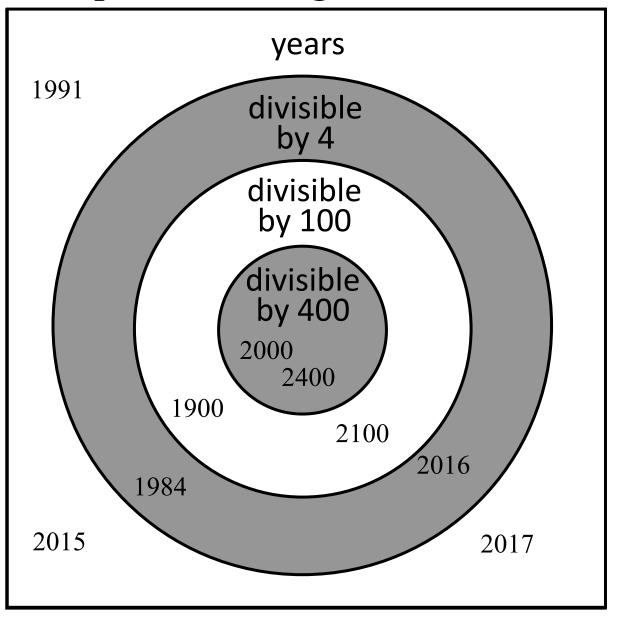
1 "week" = 7 consecutive years

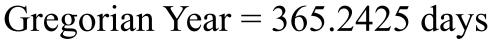
1 year \approx 365 days, 5 hours, 48 minutes, 45 seconds \approx 365.24219 days

1 solar year



Leap Years – Gregorian Calendar







69 "weeks"

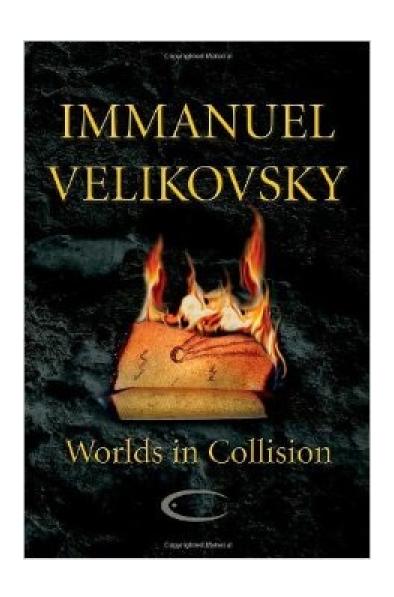
1 "week" = 7 years

1 year \approx 365.24219 days

1 Jewish year = 360 days

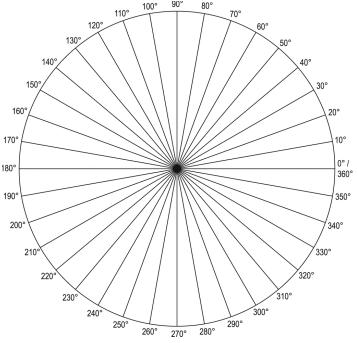






From 15th to 8th centuries BC, people used 360-day years.

Incas Mayas Egyptians Persians Hindus Chaldeans 190 Assyrians Hebrews Chinese Greeks Romans





69 "weeks"

1 "week" = 7 years

1 Jewish year = 360 days

69 "weeks" = $69 \times 7 \times 360 = 173,880$ days



6th century BC – Daniel 9 contains prediction about the future

counts the time between 2 events

- 1. the command to rebuild Jerusalem
- 2. the Messiah being "cut off"

173,880 days

March 5, 444 BC or a little after

Artaxerxes issued a decree to rebuild Jerusalem.

1	2	3	4	5	6	7
March 6	March 7	March 8	March 9	March 10	March 11	March 12
8 March 13	9 March 14	10 March 15	11 March 16	12 March 17		



March 5, 444 BC + 173,880 days = ?

 $173,880 \div 365.24219 \approx 476.06767 \text{ years}$ $\approx 476 \text{ years } \& 25 \text{ days}$

10 BC + 20 years = 11 AD

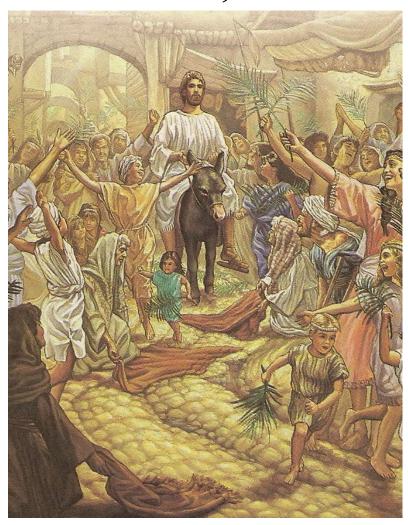
March 5, 444 BC + 476 years = March 5, 33 AD

Add 25 days.

March 30, 33 AD

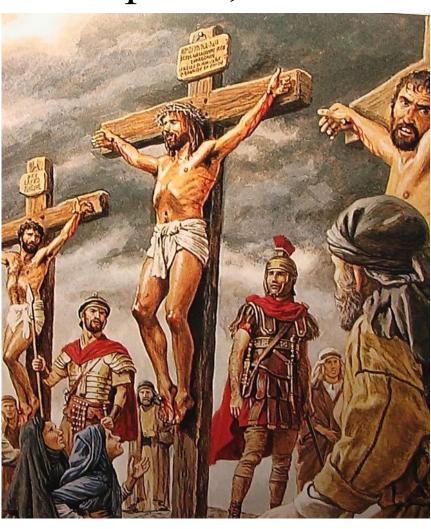


March 30, 33 AD



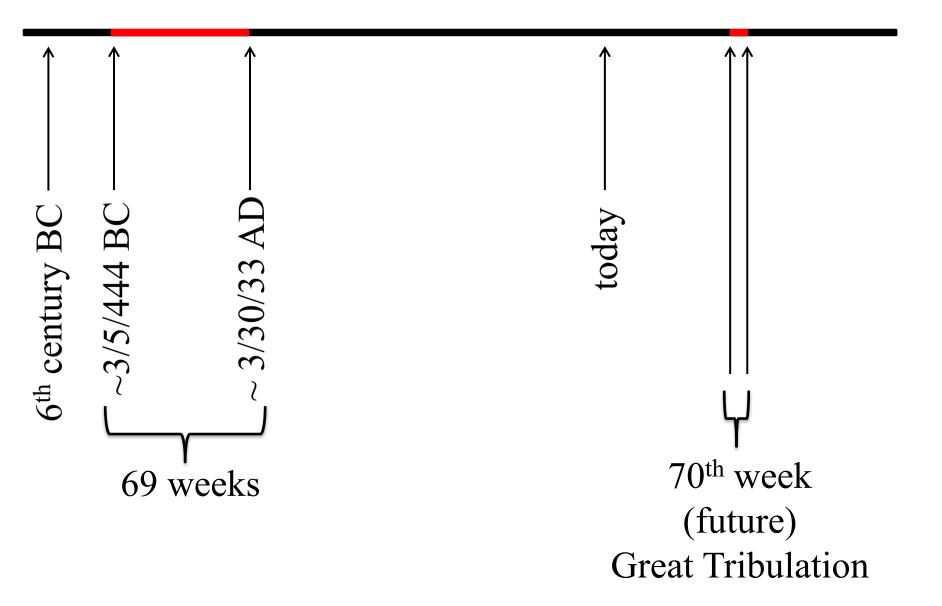
Jesus entered Jerusalem

April 3, 33 AD



Jesus crucified





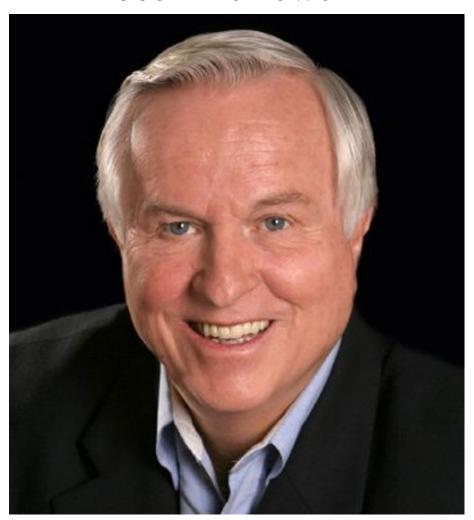


Messianic Prophecies

- 1. Jesus did walk on this earth 2000 years ago.
- 2. Jesus appeared on the scene hundreds of years after the prophecies were written down in the Old Testament.
- 3. The New Testament is reliable, and this can be verified.



Josh McDowell





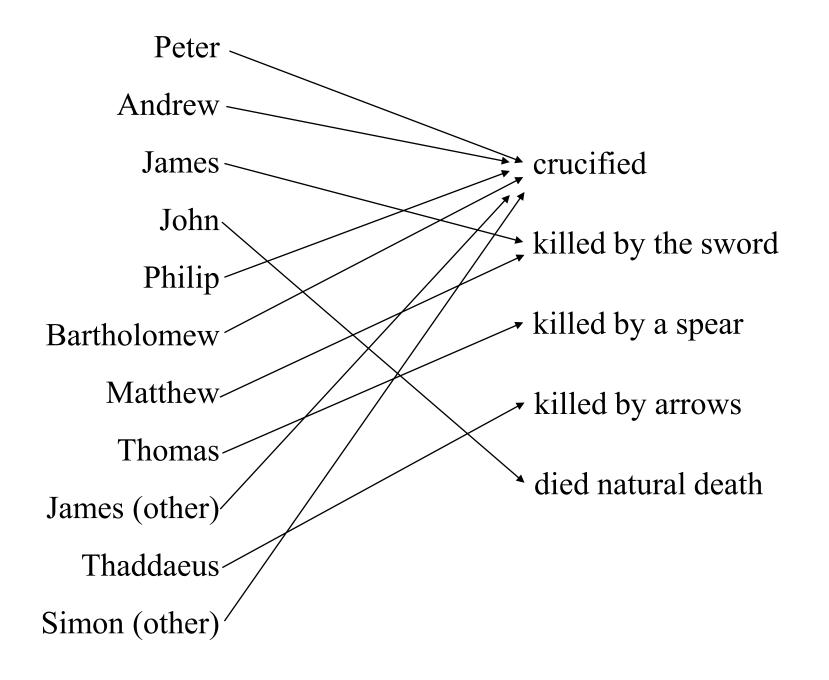
More Than a Carpenter

over 15 million sold

josh mcdowell sean mcdowell









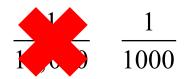
Professor Peter Stoner





The Messiah will be betrayed for 30 pieces of silver (Zechariah 11:12).







The Messiah will be born in Bethlehem (Micah 5:2).







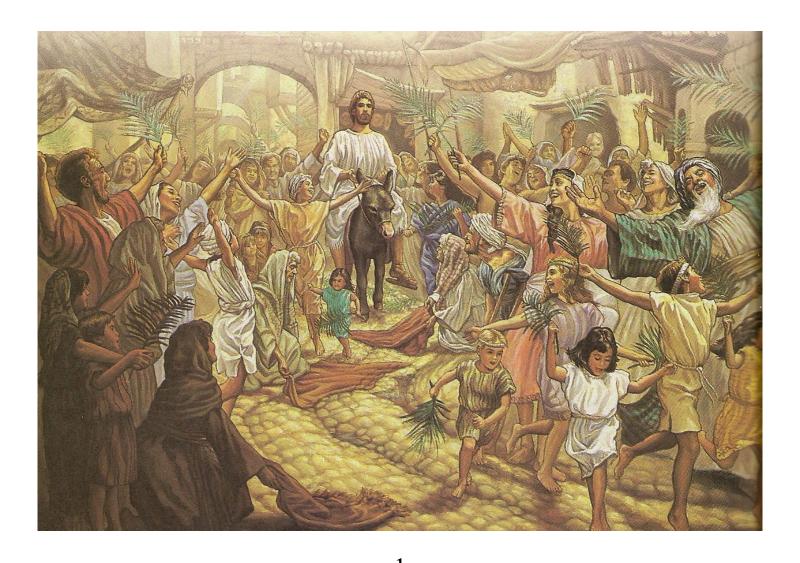
A messenger will prepare the way for the Messiah (Malachi 3:1).







The Messiah will enter Jerusalem as a king riding on a donkey (Zechariah 9:9).







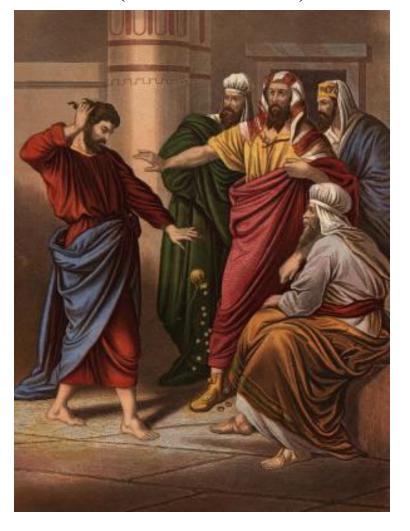
The Messiah will be betrayed by a friend & suffer wounds in His hands (Zechariah 13:6).







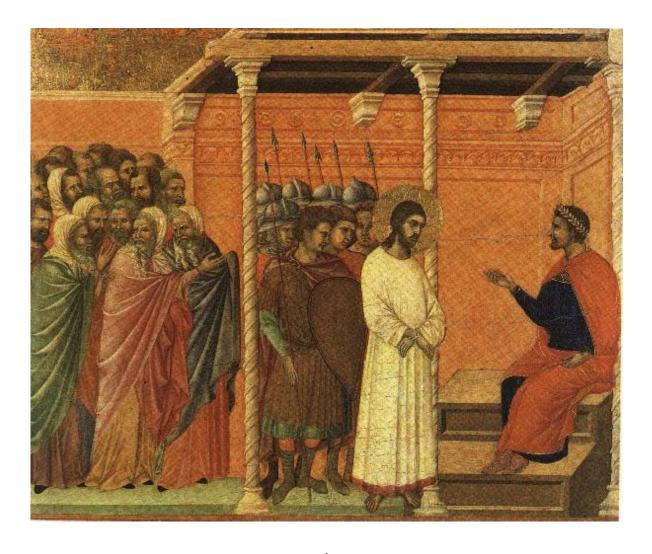
The betrayal money will be thrown down in the house of the Lord & will go to the potter (Zechariah 11:13).







The Messiah will remain silent while He is afflicted (Isaiah 53:7).







The Messiah will die having His hands and feet pierced (Psalm 22:16).









$$\frac{1}{1000} \cdot \frac{1}{100,000} \cdot \frac{1}{1000} \cdot \frac{1}{100} \cdot \frac{1}{1000} \cdot \frac{1}{100,000} \cdot \frac{1}{1000} \cdot \frac{1}{1000} \cdot \frac{1}{10,000}$$

$$= \frac{1}{10,000,000,000,000,000,000,000,000} = \frac{1}{10^{28}}$$

The chance of **one** man fulfilling all 8 of these prophesies

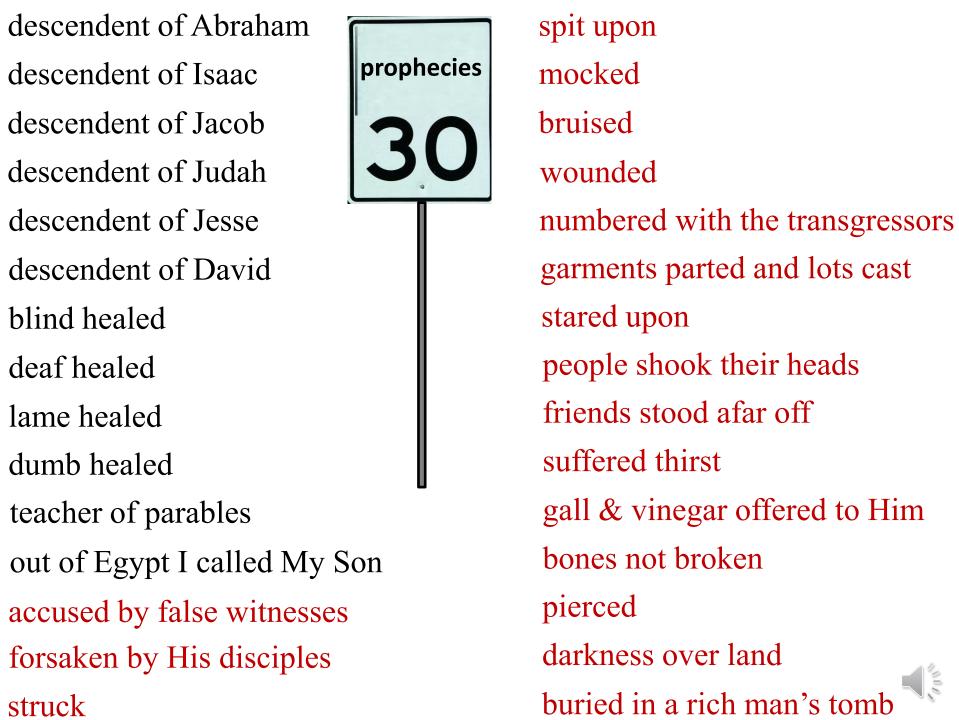
The chance of **ANY** man fulfilling all 8 of these prophesies

$$\frac{1}{100,000,000,000,000,000} = \frac{1}{10^{17}}$$









Jesus made references to:	

Adam & Eve – Mark 10:6 Moses – John 3:14

Zechariah – Matthew 23:34-35

Abel – Matthew 23:34-35

Lot's wife – Luke 17:32,33

Isaac – Matthew 8:11

Noah – Luke 17:27

Abraham – John 8:58

Jacob – Matthew 8:11

Lot – Luke 17:28

Jonah – Matthew 12:40 **Isaiah** – Mark 7:6

David – Luke 6:3

Elijah – Mark 9:12

Elisha – Luke 4:27

Naaman – Luke 4:27

Solomon – Matthew 12:42

Daniel – Matthew 24:15,16

"Theorems" of Christianity

Theorem 1: All have sinned.

-Romans 3:23

Theorem 2: The wages of sin is death.

-Romans 6:23

Theorem 3: Jesus died for our sins and rose from the dead.

-1st Corinthians 15:3-4

Theorem 4: Whoever believes in Jesus will not perish but have everlasting life.

-John 3:16



Math & the Biblε

Through The Bible: Chuck Smith

J. Vernon McGee

Skip Heitzig

Pick a gospel and start listening!

links and handouts found at bottom of: www.joevasta.com

To God be the glory.

