



# Applications of College Algebra

When you will use math in the real world



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real world

\$16,000

Which of these square numbers also happens to be the sum of two smaller square numbers?

+A: 16

+B: 25

+C: 36

+D: 49



0:46 / 2:38







Which of these square numbers also happens to be the sum of two smaller square numbers?

+A: 16

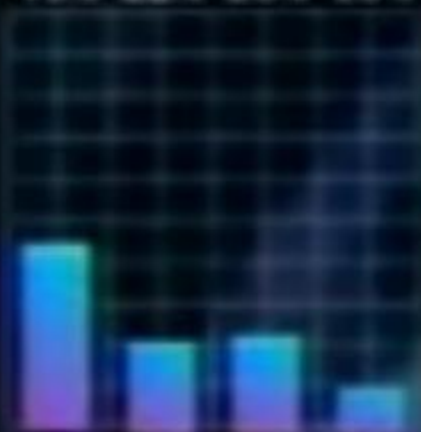
+B: 25

+C: 36

+D: 49

AOL 

45% 22% 23% 10%



A - B - C - D

Which of these square numbers also happens to be the sum of two smaller square numbers?

+A: 16

+B: 25

+C: 36

+D: 49



1:24 / 2:38





@boekster7108 2 years ago

It's okay. Since he doesn't know math, he doesn't know how much money was lost

👍 52K    💬    Reply

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Which of these square numbers also happens to be the sum of two smaller square numbers?

+A: 16	+B: 25
+C: 36	+D: 49

2:18 / 2:38

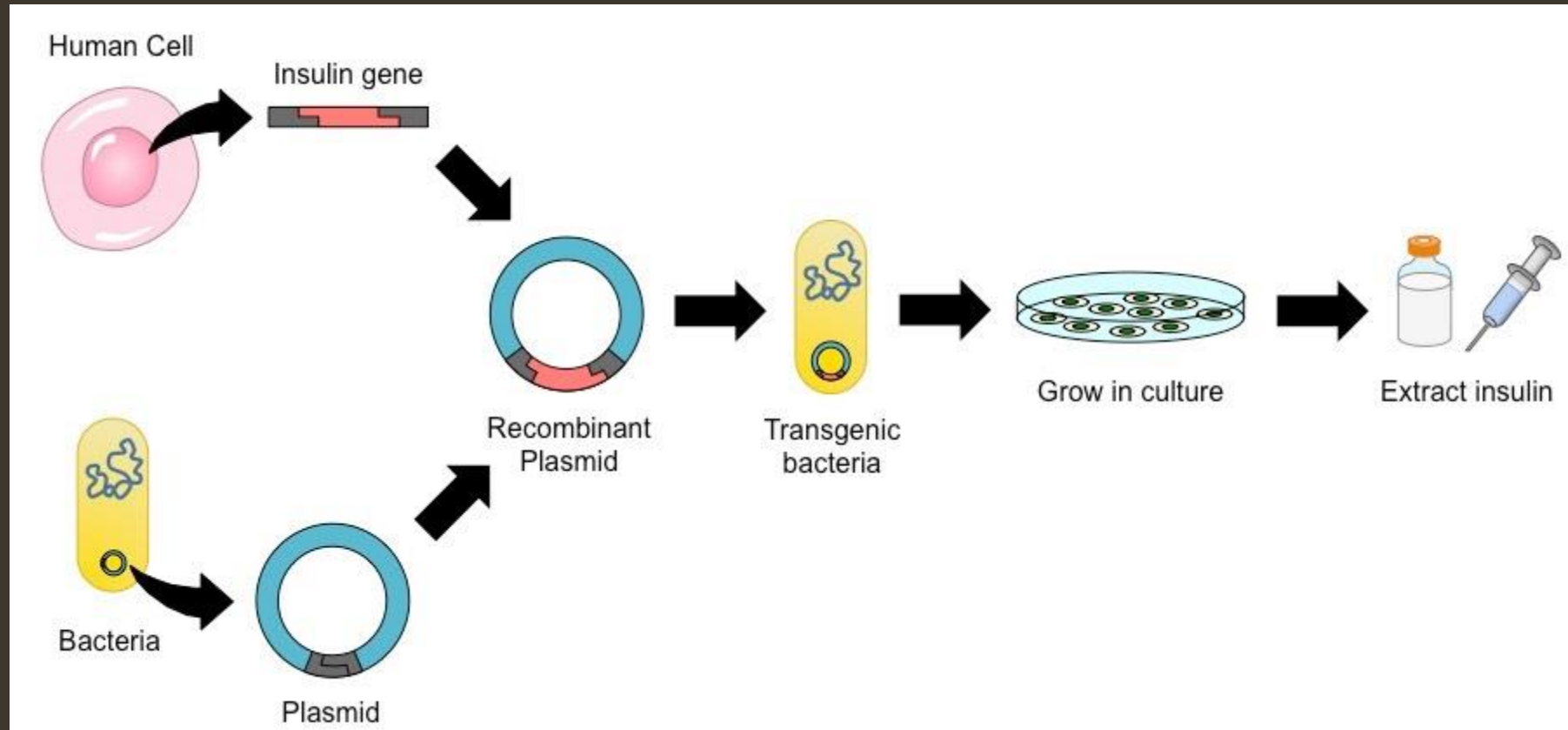
Video player controls: play, next, volume, progress, full screen, settings, closed captions, and share.



# Baby Grace



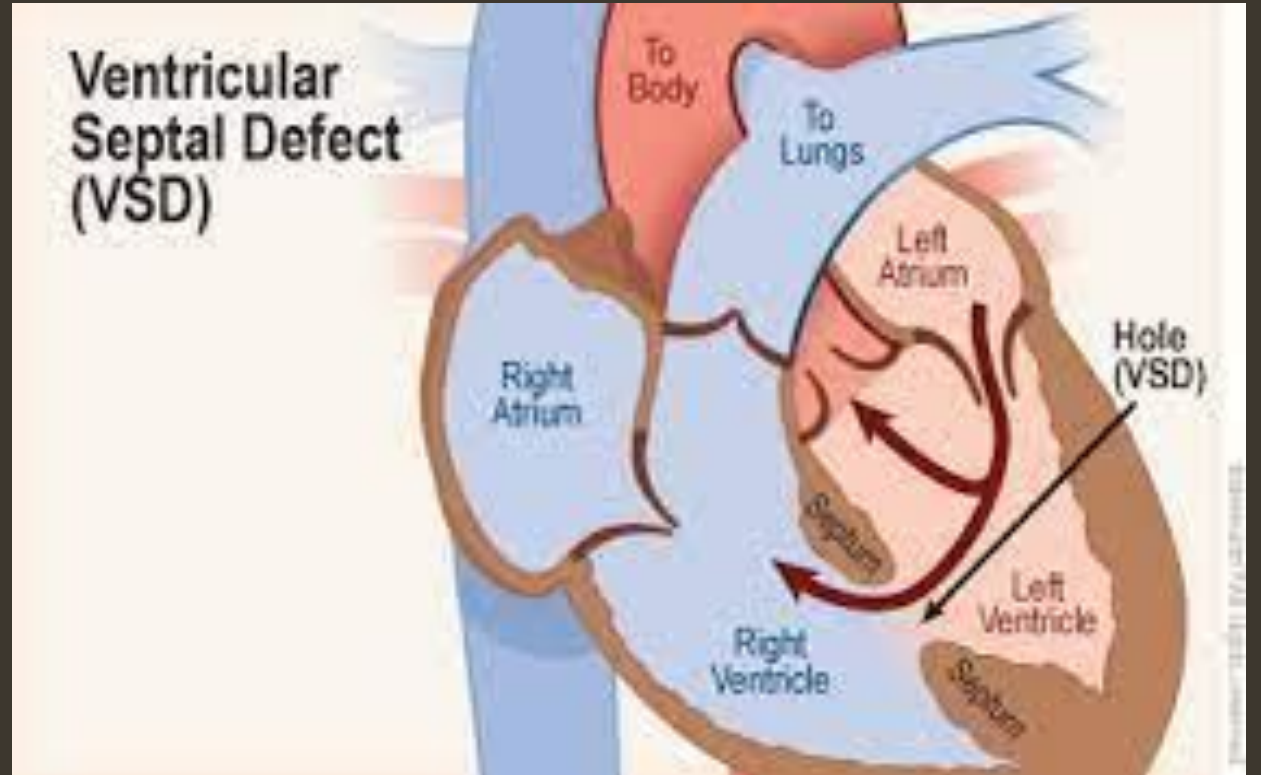
# Other Exponential Growth Application





# Grace's Heart Condition

- “It’s nice talking to a numbers guy”
- Rigorous habit of thinking.



# Financial Decisions

Better to buy down the mortgage  
or save it?

Better to buy down interest rate  
or keep closing costs small?



# Other Decisions

- Health insurance plans
- W-4 Tax form
- Claiming depreciation
- Retirement plans (lump sum vs. monthly payments)

*Require reasoning on par with college algebra*

TCP PLAN COSTS			
	Tier 1	Tier 2	Tier 3
Deductible	\$200 individual \$400 family	\$1,000 individual \$2,000 family	\$5,000 individual \$10,000 family
Out-of-pocket maximum	\$7,350 individual \$14,700 family	\$7,350 individual \$14,700 family	\$8,700 individual \$17,400 family
	<b>Copay</b>	<b>Copay</b>	<b>Coinsurance</b>
Routine preventive health care	\$0	\$0	50%
<b>Office Visits</b>			
Primary care physician (PCP)	\$20	\$20	50%
Telehealth	\$20 (\$49 until deductible met)	\$20 (\$49 until deductible met)	50%
Outpatient mental health provider	\$20	\$20	50%
OB/GYN	\$20	\$20	50%
Chiropractor	\$40	\$40	50%
Therapist (occupational, physical, respiratory, speech)	\$40	\$40	50%
Other specialist	\$40	\$40	50%
<b>Hospital and Outpatient Services</b>			
Urgent Care	\$75	\$75	50%
Emergency room	\$200	\$200	\$200
Radiology (CAT, MRI, PET)	\$100	\$100	50%
Outpatient surgery	\$100	\$100	50%
Inpatient hospital admission (not applicable for maternity)	\$250	\$250	50%



# Service

