

There are 2 people in the room.
Doos: Hi jen
Jen: hi Doos
Jen: how are you
Doos: fine, you to I hope?
Jen: yes i am
Jen: having a lazy day today kinda
Doos: it's quiet
Doos: jah me aswell
Jen: baked cookies and doing laundry
Jen: what time is it now
Jen: 10 minutes - 4
Doos: 10minutes to midnight
Doos: yah
Jen: it has been warm so the kids and hubby have been outside and the kids got to go for a quad ride
Jen: can i ask you a question
Doos: sure
Jen: what do you think a stone like the one on auction is worth
Jen: troy is thinking about bidding
Jen: and i would like it for ruture study
Doos: I can check for you later if you want
Jen: ok sure
Jen: thanks
Jen: wow the site is sure undergoing some changes
Jen: i like them
Doos: yes, lots of new stuff
Jen: yeah it is cool
Jen: and just in time for xmas
Doos: holdon, let me ss if I can find the prices now quick
Jen: ok
Frank entered the room.
Jen: hello frank
Frank: Hi Jen...Doos
Jen: how are you today
Jen: doss is looking for something for me he will be right back
Frank: I'm good thanks...you?
Doos: hey Frank
Jen: good
Jen: there he is
Frank: hey doos
Frank: You get back in time then?
Doos: Jen: $usd * / carat$, so about * dollars (its a little over 12 carat righ)
Frank: from the ciggie run
Frank:
Jen: ahh i think it said 142 maybe a miss type
Jen: let me check
Doos: I decided not to buy any booz today, so I should make it through this session .. how about you?
Jen: yes it says 142 carats
Doos: 142?
Jen: that is what he has there
Frank: I'm on anti biotics so no booze here either
Jen: 28.5 grams
Frank: is it a billiard ball?

Jen: no
Jen: it is a stone
Doos: uhm, I miscalculated in my rush, it should be * / carat
Frank: course it is ...what kind?
Jen: the one on auction
Frank: where?
Jen: flame-fusion synthetic ruby boule
Jen: YG
Doos: I will not log this part, since I don't think Robert would appreciate me posting this
Frank: ah a complete boule?
Jen: no i think half
Jen: i think i need a talk with my daughter
Jen: my claculator is missing
Frank: I wondered how big they would be...thats over 50 Grammes for a whole one
Frank: I think they squeeze them with pliers to split them in half when they come out of the furnace
Jen: actually i was reading in peter reads book and they can be up to 500 carats for a whole
Frank: wow
Frank: how big would that be in size?
Doos: the sg - 4, so happy calculating
Frank: lol...hoped you would just know from the top of your head
Jen: it says a typical boule 40-48mm long and weighing between 200 and 500 carats
Jen: from the top of my head no
Annie entered the room.
Jen: hi annie
Doos: hi Annie, you are late
Annie: hello
Jen: gemma may be late
Annie: uhm
Doos: we have been busy for an hour now annie
Annie: hi Doos, Frank Jen
Frank: Hi Annie
Annie: really
Doos: nah, just messing with ya
Annie: ok,, so you all just arrived
Doos: yes
Jen: well i have been here for half an hour waiting
Jen: lol
Annie: oh, did you have company
Frank: I've just arrived
Jen: no i just signed in and did laundry
Annie: ok, thats great
Jen: see that way i cannot be late lol
Annie: just great
Frank: Hows it feel to do the morning run Annie?
Doos: what chapters are you all working on now?
Jen: hmm i really don't have anything to ask today
Jen: we are suppose to be 6 but we are still working on getting 5 completely done
Jen: gemma wasn't understanding some of the formula's that i had trouble with and you helped me with Doos
Annie: Frank, i just woke up

Doos: which formulas were they
Frank: I know....not much of a Sunday lie in eh
Annie: i think i got a hang ver
Jen: but i will be starting 6 this week
Annie: my head feels like a mushroom
Doos: drink some cola annie, makes you feel better
Frank: Hope you earned it
Annie: we had our breakup xmas party last night with GAA
Jen: ahhsin
Jen: is one of them
Jen: and the speed of light in the stone i think was another
Doos: some tabledancing involved?
Annie: no table dancing
Doos: well the sin thing is fairly easy
Annie: but lots of kisses and presents
Jen: actually i think she got that one
Jen: she never thought of the scientific calculator
Doos: all you need to remember is that formula (and how to use your calculator)
.. the value of the sines
are usually given
Frank: sure beats log tables
Jen: well once you had explained it to me it was fairly easy
Jen: now to memorize it lol
Doos: they will never ask you to calculate the actual sin, although that is
fairly simple to do
Jen: yes
Frank: Are you doing a distance course Jen?
Jen: yes
Frank: Do you get assigned a tutor?
Jen: and i think i may take a day to go over lesson 5 again and make sure i have
it all figured out
Jen: i did but i started this when my daughter was younger
Jen: and found it very hard to do with her home
Jen: so i had let it go
Jen: and they only give you one year to do it
Jen: so i lost my tutor
Jen: and now my daughter is in school full time i am back at it
Frank: lucky you got YG...It's hard to fit in anything when they're babies
Doos: Frank or Annie, what is the English version of the sine ... opposite side
divided by the hypotenuse
.. is that a good english explanation?
Jen: yeah
Frank: Yes
Jen: i didn't realize how hard it would be to be honest
Jen: until i got it and i would read a paragraph and then she would call mommy
and i lost what i had just
read
Frank: Usually I'd say (or think) opp over hyp
Doos: ah okay
Jen: but Doos and Annie have been my biggest help through this
Frank: Do you work in the industry?
Doos: maybe I should do a page on simple maths in gemmology
Jen: when i go back over lesson 5 i think i am going to try to practice some
diagrams too

Frank: thats a good idea doos...put all the formulas used in gemology in one place

Jen: that would be a good idea

Jen: amazing how math and science are related

Doos: if you are worried about the youngster bothering you while studying, break it in small pieces and write down the definitions and the formulas you encounter (break the chapter, not the kid)

Annie: have you seen "a beautiful mind"

Frank: I used to have sheets with all the laws written on them when doing physics...great exam revision tool

Jen: thanks for the advice

Jen: no i havn't seen it yet annie

Doos: another good advise is to make a sheet about it and hang it in the toilet, that way you can read it a few times a day

Frank: I was thinking of making up some cards with the stones and their properties on them

Jen: now there is something i never thought of the toilet

Annie: my favourite actor aussie Russell crow

Frank: but suspect it's all been done before

Doos: that may not work for boys .. wet shoes etc, but for girls that works pretty good

Frank: do you know of any good examples ..preferably for download

Annie: tape yourself and listen on

Doos: yes Frank, flashcard are a must

Annie: with headphones

Jen: i can't stand my own voice

Frank: good Annie...she won't hear the kid calling her

Doos: no one can

Annie: reading and writing what you read is good revision too

Jen: i like to write better

Annie: if you just read, only half of your brain will work

Annie: when you read and write, both parts of brain works

Jen: i am seriously thinking of taking some time maybe a week to really review lesson 1-5

Jen: and take notes ect.

Doos: yah

Doos: use lots of paper

Frank: I should start doing that now I guess.

Jen: i mighbt consider that just pout lesson 6 off for a week and spend this week reviewing

Jen: and then just what ever comes up for questions next week will probably be review

Jen: but get a feel for what i am still having troubles with

Jen: saying it now it sounds like a really good idea

Jen: i think i will try to do that

Frank: Do you have all the equipment jen? refractometers etc

Doos: I never throw away notes, I still have them from highschool

Jen: no frank i do not have all the equipment yet

Frank: Yes but do you read them?

Jen: one day i hope too

Frank: me too

Jen: i never finished high school

Jen: i think that also makes this hard for me
Doos: well not from highschool, but others I need now and then
Jen: i still have to learn to study proper and to use my own words ect..
Jen: and i missed alot of math and science there too
Doos: the math is not difficult
Doos: mostly just dividing
Jen: but with all your help it ill all happen
Jen: amazingly division is one of my favorites
Jen: i always liked division
Frank: Yes I understand, I left school at sixteen too..but I studied electrical engineering so have a pretty good grasp of the science and Maths
Jen: i left before i finished grade 8
Jen: i was pretty young when i quit
Doos: here we have a studylaw which forces everyone to study till 18
Annie: there was a documentary here the other day, a lady in her 30's with 4 kids went back to highschool to finish off her degree Jen..... its never to late for anything
Jen: hmm maybe that i what they need here
Frank: In Scotland it was considered ok to send me down a coal mine at 16
Jen: yeah but they want 350.00 per school course to do it here
Jen: and if you even took grade 10-12 and only main courses that would be expensive
Jen: and that is to do it at home not in a school
Frank: I have a friend who went back to high school at 28...he's got a phd now
Doos: good old factory owners
Annie: i mean, if you wanted to (that is) its not necessary if you can't afford it
Jen: yes
Jen: i think it sucks thought they should always have a high school education free
Doos: here it is
Jen: but after you are 20 here weather you ever dropped out or not it then starts to cost you
Jen: that is what sucks and that just came into effect within the last 4 yrs
Doos: uhm, yes there is an age limit here aswell .. 30 I think
Annie: thats fair, but you can get special allowance if you have a good reason
Jen: well and 30 is a better age
Jen: not here you cannot get help
Annie: looks like canada had tough laws
Jen: maybe if you were low income like on socail services but i think even then they will charge you
Frank: America is not famous for it's social policies
Jen: canada's government sucks
Frank: but I though Canada was better
Frank: all goverment suck Jen
Jen: they are more worried about keeping thier money than seeing people are educated
Jen: people really think that hey
Jen: i guess in some ways they are
Doos: Frank on what chapter are you working?
Annie: american parents start to save money,, as soon as a child is born
Jen: but all in all i think it is almost the same
Annie: to be able to afford to send them to good education
Jen: yeah and even then you cannot afford it

Jen: post secondary school fees and tuitions here are outrageous
Annie: Jen.... anything is possible if you set your heart into it .
Frank: I've finished the equipment chapters and I'm starting on the stones A-
Annie: but don't worry about it now.. you don't need a college degree for
gemology for now
Jen: yes that i know but i really feel sorry for the kids who are trying to get
post secondary and can't
afford to
Jen: and what is worse what these kids do to pay for thier education
Frank: Not much problem with the first chapters
Doos: ah good
Frank: except I dont have all the equipment
Jen: i am lucky if i wanted post secondary or want my band will pay for it but
not everyone has that option
Jen: we are coming up for a provincial election here soon so i have really been
paying attention to
politics and what they plan to do supposedly
Doos: frank, try if there is a nice jeweller in the area who allows you to sit
behind his now and then,
till you have your own
Frank: I have a dichroscope, a prism spectroscope, a cheap loupe and a chelsea
filter
Annie: hey, what is the saying, never believe and discuss religion, politics or
sex
Jen: well you are a few up on me
Jen: i have a loupe
Frank: And I have about 2 dozen stones left.
Jen: yeah that is about it annie
Frank: Most of my specimens have been given away to folk over the years
Doos: uhm
Doos: not smart
Frank: what I have is mostly rough...some tanzanite, an emerald crystal
aquamarine, and a load og garnets I
fished out of a river by myself
Jen: i am trying to collect specimens
Frank: good fun too
Doos: fun for the kids aswell
Frank: But I've looked at them over and over..need some new ones to look at soo
Frank: Yes my eldest son has most of whats left of my stuff
Frank: he wants to be a gemologist as well
Jen: i wish i didn't have to get permits to send rough ammolite
Doos: a new family tradition
Jen: that would be a nice specimen for some of you
Frank: We also have 4 microscopes in the house (well I like them) but
unfortunately none of them are much
good for gemology
Jen: but without a permit it must be set as a gemstone
Frank: Tie a string around it and call it ethnic
Doos: lol
Jen: brb
Frank: Yes I've started studying again as much for him as for me..still
wondering if there is a means to
make a living from it
Frank: but thats a few years away still
Doos: you could do appraisals

Doos: little people can live of gemmology alone
Frank: I'm bored with my current job....appraisals do you have to go into the office to do that?
Doos: or form your home
Doos: from
Frank: Sounds like what I'm hoping for
Frank: work from home
Frank: build my gem lab here
Frank: Who employs me? If I get the credentials together
Doos: take a crate, put the equipment in the car with you when you need to appraise at peoples home or shops
Doos: you yourself
Frank: Yes I like portable. I also like being self employed
Doos: if you try to learn some gold/silver stuff, you should be able to do all jewels
Doos: so start visiting the shops, make friends and ask a lot of questions
Frank: I got some acids testers et al here...I did a bit of gold prospecting in East Africa
Doos: hallmarking is an important factor in France
Frank: That was where I started to see gems
Jen: back
Doos: you wont need the testers often
Doos: all is marked there
Frank: No not for jewellery
Frank: I understand the british hall marking system...is the rest of Europe the same
Annie: what do you mean frank,
Doos: yes
Annie: not for jewellery,
Jen: hey everyone
Jen: i need to think about supper ehre for the family
Doos: well they difer all slightly
Annie: all jewellery should be marked , don't you think
Doos: hey jen
Frank: or each country with their own?
Jen: so i will pop back in after and see if you are all still around
Doos: yes
Doos: okay jen, have a good meal
Frank: What I mean Annie is I dont think many people want thee rings marked with acid
Jen: thanks
Jen: see ytu after
Annie: oh, sorry, i am off track
Jen has left the room.
Doos: frank we rub the jewel on a black stone, and put the acid on the stone
Frank: see ya Jen
Annie: i thought we were talking of hallmarking
Annie: you don't put the acid on the ring
Frank: Yes if it's mahallmarked it's not a problem
Annie: its rubbed against a black
Annie: and acid tested
Frank: Sorry most/all of my experience with gold is dust or nuggets
Doos: frank, in france 99% will be hallmarked

Doos: but the french have a very large range of hallmarks, so you need a few good books on them
Annie: like an antique dealers book
Doos: or the 3 Tardy booklets
Doos: I have about 20 hallmarking books
Frank: I like the idea doos but appraisal means putting a value on it...I need to get a lot of experience
in the cost of the stones etc before I could make an informed decision
Doos: yes, so start getting that info
Doos: get familiar with it
Frank: and I'm too old to do the low paid sales bit
Doos: just walk in the shops and ask about how it works (explain why etc)
Frank: lol...back to ebay
Annie: i was doing some work for this guy - he is a valuer
Annie: and he would give me whole heap of stones to identify
gemma entered the room.
Doos: hi Gemma
Annie: and i used to spend hours testing and identifying them
Annie: Hi Gemma
Frank: hi Gemma
gemma: hi i just got back from chores. frozen hoses, damn. took forever.
gemma: discussion about done
Annie: how are you going
gemma: frozen toes
Annie: jen just left
gemma: sorry i missed the discussion
gemma: thought id be done but for the stupid hoses
gemma: what was discussed?
Frank: were sort of planning my career
Annie: not much this morning
gemma: plan mine to. i want gems, horses, writing, and enough money to die on
Annie: Doos, i am very disoriented this morning, was that right,
Doos: yes, not much gem talk today
gemma: well, hell, what's going on ? i thought it was on reflection and refraction
gemma: but no action, huh?
Frank: no one can think of questions
Frank: I blew mine on the forum...sorry
Frank: thanks for the answer though Annie
Doos: oh yes, Frank did you get it with the refractometer .. total internal reflection, critical angles
etc?
Annie: what
Annie: oh, thats ok Frank,
gemma: annie, i hope the fog is fosters
Annie: there is no fog this morning, just wind and rain
Frank: Yes once I started to think about the critical angle it all came together
gemma: no, , i meant you, dear. thought you were disoriented . . .
Annie: after all its a meter that is measuring the refraction
Annie: yes, very Gemma, not with it this morning, too much grog last night
Frank: Have any of you ever used a hanneman balance. (Did I spell that right)
Doos: if you look at the scale in a refractometer .. the lighter area is caused by TIR, the dark area is caused by refraction
gemma: TIR?

Doos: I never
Annie: total interna reflection
Doos: Tor Internal Refletcion
gemma: of course. forgot
gemma: im just learning that stuff.
Doos: spelling is going well today
Annie: its how much reflection occurs during the course of refraction
gemma: could you elaborate on that for me annie or is it too complicated with limited knowledge/
Doos: I should get my FGA summary out of storage .. lot's of easy to understand info in that
Frank: I got my gem equipment 101 DVD yesterday it explained the positive and negative thing much more clearly than the books. watching it happen made it all really clear
Doos: yah
gemma: i'm reading the stuff but am confused on how the internal rays don't bounce off each other and get cancelled out
gemma: that 101 is great
Doos: they stay alive untill they leave the stone and then die
gemma: i felt i understood a lot about the instruments already
gemma: do they criss cross each other, doos
Doos: yes
Frank: Yes but theory in the head isn't as good as experiance with the senses
gemma: meaning frank . . .
Doos: if it was visable as lines, it would be one big black mishmah of lines
Frank: well I've reread the chapters again and again
Frank: but watching it on the DVD nade all the uncertainties
gemma: yes, that makes sense but do they ever meet and cancel each otehr out. i think ive read that somewhere but not sure i understood
Frank: click together
Doos: uhm
Doos: not sure
gemma: i can accept that for now! lol
Doos: I would think they rather enfore, but I really have no idea
gemma: what do you think, annie?
Annie: sorry, what, i am half a sleep here
gemma: oh love just go to bed! you need to keep healthy, girl.
gemma: what i was wondering annie
Annie: no its fine, what was that
Frank: Waves can cancel each other out ar add together at other points in the electromagnetic spectrum so why not light
gemma: is if the reflected and refracted light in the stone ever crisscross and cancel each toerh out
gemma: well, light bundles units may be different because of the quantum thing
Annie: no, just stand in front of a mirror and look at yourself
gemma: gross
Annie: no they don't cancel out
gemma: so do they just slide through each other, bounce, bend . . .?
gemma: (i love this stuff!!!)
Annie: i don't know, now,
gemma: two down! frank?
Annie: hang on i am pulliing myself together

Frank: I think that light as seen from the perspective of any on spot
Frank: would be expanding in every direction
Doos: that is correct
Frank: any one spot
gemma: you know, that confuses me.
gemma: if light is a wave, doesn't it flow in units or whatever in one basic
direction with some
amplification
gemma: how can/does it expand?
Doos: take away the lampshade and you will see that the lights goes everywhere
Frank: only in an optic fibre or maybe laser light
gemma: yes, but that is because it comes from a coil within
gemma: what frank?
Doos: gemma, the sun (where we get our light from) does the same
gemma: but its light waves flow from every point of the suns surface releases
gemma: not arguing, just thinking out loud
Doos: thats good
Frank: I'm thinking aloud about ways to control light to one direction...
Frank: polarise it
gemma: tube tunnel polarize
Annie: guys, i am signing off, not feeling to good
Annie: sorry
Frank: but the light which isn't passed through bounces back..it's not cancelled
gemma: ok annie. sorry you aren't well.
Frank: I dont think
Frank: Ok see you Annie
Doos: well, we visualize it diagrams etc as single waves .. but there are so
many waves that we can never
see one seperated
Annie has left the room.
gemma: ok. so the rays in the gem dont cancel they bounce around until they find
release
Doos: uh, bye Annie
Doos: yes and then weaken
gemma: because they lose energy?
Doos: yes
gemma: how
gemma:
Doos: meany
Frank: Physicists would probably dispute this but light doesn't have mass
gemma: physicists would dispute that yes
Frank: not enough to have a high chance of collision
gemma: unless you think of light as only energy . . .
Frank: and mostly imaginative mass anyway
gemma: and not as the unit entity
gemma: well, hell, physics is primarily imagination anyway!!!! lol
Frank: lol
gemma: at least gemologists can actually hold light in there hands
gemma: like little tinkerbells
Frank: except the stuff that builds bridges ... yes
gemma: i said primarily . . .
gemma: doos! wake up! im talking too much arent i . . .
gemma: i feel like dorie . . .
Doos: no I'm reading
gemma: doos, are you the one who suggested the book crystallography and light?

Doos: and wondering where I could read up on that stuff
Frank: Doos I have a transparent cabochon Garnet It shows two spots of light
which chase each other around
but never meet
Doos: uhm, no
Doos: heh
Doos: I'd love to see that
gemma: are they following little fractures or inclusions or something
gemma: remember, im still dumb on this stuff
Frank: I think one is a reflection from the surface
Frank: where does the other one live?
Doos: an inclusion I'd guess
gemma: hey, frank, do you have a digital camera with mini-movie capability?
gemma: you might actually be able to film it.
Frank: Not at the moment but I'm getting my wife one for Xmas
Frank: I could try
Doos: heh, so you are giving one to yourself
gemma: get it early and rationalize it by telling yourself you are testing it
gemma: like i give my mom book shelves and then fill them with my own books!
Frank: yes well it might have a macro etc I have to look into what a gem camera
needs
Doos: hehe
gemma: or give the barn owner a ceiling duster so i can clean my own stall
cobwebs!
gemma: robert just uses a regular camera.
gemma: julian might have some ideas. he's been doing some gem photos.
Frank: Ok I'll post it as a question on the forum
gemma: good idea. we have some great photogs in the forum.
Frank: pity she doesn't need a refractometer
gemma: hhahahhhahhhha
Doos: heh
gemma: or a microscope. whooaaa!
Frank: yes those are the BIG expense
Doos: just get her one and say she's ungratefull and use it
Frank: lol
gemma: i have one and im afraid to take it out of the box
gemma: robert is ready to kick my ass
Frank: she'll probably tell me It's hers and I'm not to touch
Doos: heh
Doos: why is that Gemma?
gemma: its so expensive im afraid ill wreck it
Doos: oh dear, then why buy it
Frank: did you get it from YG
gemma: yes, gemma replied, sheepishly
gemma: because i have always wanted a microscope! i love them!
Frank: Robert aint gentle with his
Doos: they are sturdy things .. they dont break easily
gemma: and i know i will use it. ok. i feel better now.
gemma: and rj made a proto-dvd of how to use the microscope for me
gemma: that i havent even watched yet.
Frank: I've got four here gemma...but all pretty useless for gemology
gemma: i feel like a turn
Frank: but the old brass look.lovely
gemma: the last microscope i used was for looking as fecals!
gemma: gems are much prettier :lol:

Doos: some look like shit aswell though
gemma: hahahha. like that tourmaline i thought about?
Frank: lol
gemma: i never did buy it doos
Doos: heh, good
gemma: yeah, thanks for the boot.
Doos: I remember it vaguely
gemma: you said it was too brown and ugly besides
gemma: i bought the tanzanite instead . . .
Doos: I like buying crappy included once myself
Doos: more fun to look at under a microscope
Doos: and cheaper
Frank: yes
gemma: that was my intention.
gemma: i thought i would learn more by looking at shit than perfection
gemma: though it didn't help me with men . . .
Doos: I don't pay over \$5 for any of them, sapphire or garnet
gemma: right.
Frank: is that a good rule if I'm looking doos
Doos: yah
gemma: modo loaned me some pieces of ruby and sapphire that she said are
absolute shit but cool to study
gemma: she said that's what she did, though she's more venturesome in the gem
market than i am
gemma: BTW doos, the book on light i was referring to is Crystals and Light, 2nd
ed \$6.79 Wood,
Elizabeth Dover 1977 0486234312
gemma: ignore the 6.79 on that. that was my price i bought it as
Doos: I want a heavily included demantoid, yet they are higher priced with good
inclusions
gemma: right. that makes sense to me.
gemma: much more interesting.
gemma: like julian and thei barbie doll with the scarred face lol
Doos: I'll have a look at amazon later
gemma: ok. i think it was jame larson who recommended it and someone else said
it was great
gemma: maybe your nemesis JB . . .
Doos: dunno
gemma: ok. im going to bow out and let you guys talk.
Doos: he is at the nudy beach, falling in love every 5 steps
Frank: I'm going to bed too
Doos: I'll do the same, night all
gemma: night all thanks for talking
Doos: first I'll log
Frank: night
Doos: bye for now