## Grade 11 Essential Quiz Debrief Week 4





## Grade 11 Essential Week 4 Quiz

Routine Thursday Quiz. Week 4. A summative quiz, worth marks (Quizzes are 15% of your mark). Grab pencil, paper, cheat sheet, calculator, formula sheet, loan tables, etc.

This 30 minute quiz is allotted 6 hours before it is disabled.

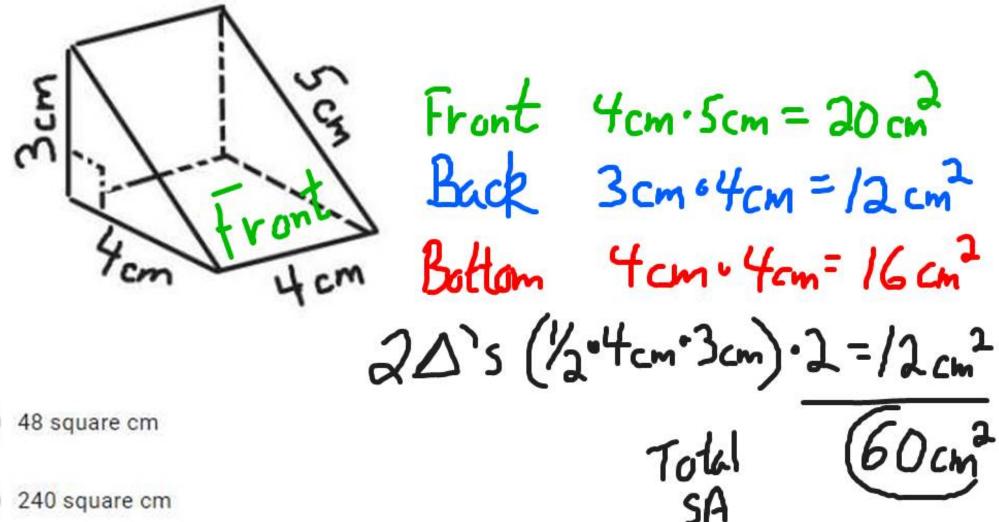
Ashton borrows \$7,900 to have his house painted by Avery's 'Quickie Paint'. The loan is for 8% over 3 years. State Ashton's monthly loan payment. [use tables or use an App or website if you want, they all give the same answer give or take a few cents]

31.34 • 7,900/,000 = 247.59



Annual Rate			THE PERSON NAMED IN	4 Years Monthl y	TOTAL STREET,	10 Years Monthly	Ye Mor
2%	\$84.24	\$42.54	\$28.64	\$21.70	\$17.53	\$9.20	9
3%	\$84.69	\$42.98	\$29.08	\$22.13	\$17.97	\$9.66	5
4%	\$85.15	\$43.42	\$29.52	\$22.58	\$18.42	\$10.12	
5%	\$85.61	\$43.87	\$29.97	\$23.03	\$18.87	\$10.61	5
6%	\$86.07	\$44.32	\$30.42	\$23.49	\$19.33	\$11.10	5
7%	\$86.53	\$44.77	\$30.88	\$23.95	\$19.80	\$11.61	9
8%	\$86.99	\$45.23	\$31.34	\$24.41	\$20.28	\$12.13	9
9%	\$87.45	\$45.68	\$31.80	\$24.89	\$20.76	\$12.67	\$1

## Determine the Surface Area of the Triangular Prism shown here



- 240 square cm

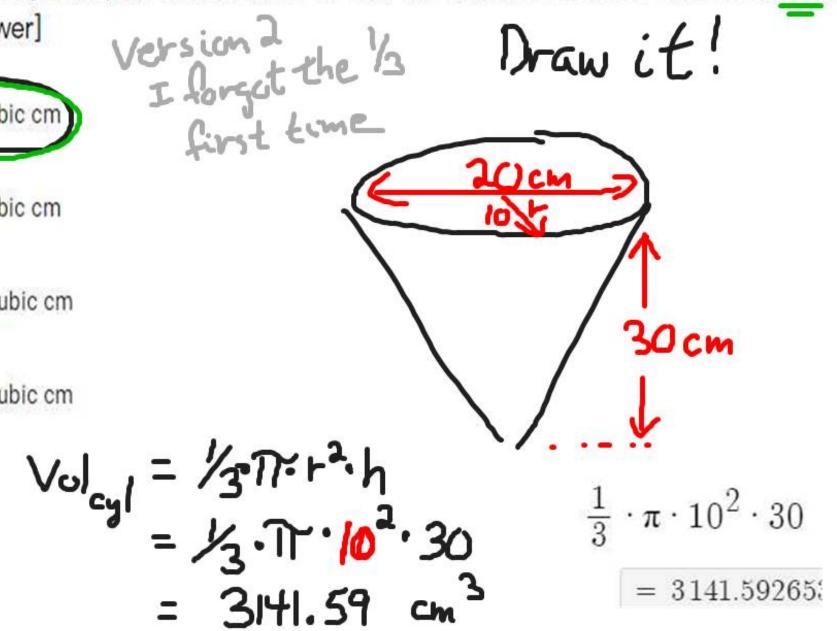


16 square cm

A popcorn container at the movie theatre is the shape of a cone. The diameter of the cone is 20 cm, the height (depth) of the cone is 30 cm. The cone has a volume of: [select best or

closest answer]

- 3,140 cubic cm
- 9,420 cubic cm
- 12,570 cubic cm
- 38,000 cubic cm



Using the Rule of 72 for an investment, state the approximate time it will take for an investment to double if it is invested with compounding interest at 6% Annual Percentage Rate (APR). State the answer below:

If 
$$t \cdot t = 72$$
 then

~ doubled investment

 $72 = 6 \cdot ? \quad 72 = 6 \cdot (2)$ 

12 years should ~ double

(hede? Test? — 7 \ 12 \ 2.043478289

12 works! 1\*(1+0.06/1)\*(12)

2.012196472

Which has the most volume?

a Cube with sides of 5 cm 5.5.5 = 125 cm<sup>2</sup> just drawing this would probably solve it

a Square Pyramid with Base area of 25 cm<sup>2</sup> and height 10 cm

1/3·25·10 = 83cm2

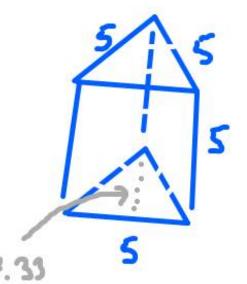
an Equilateral Triangular Prism with all edges 5 cm in length;

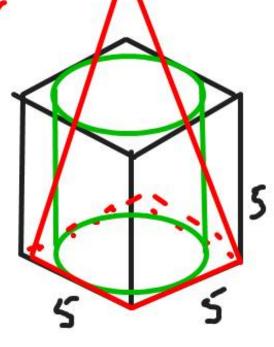
will fit inside cube ~ 54/

a Cylinder with diameter 5 cm and height 5 cm

74.2.52.5 = 98

If you drew it you de likely would not need any calculations



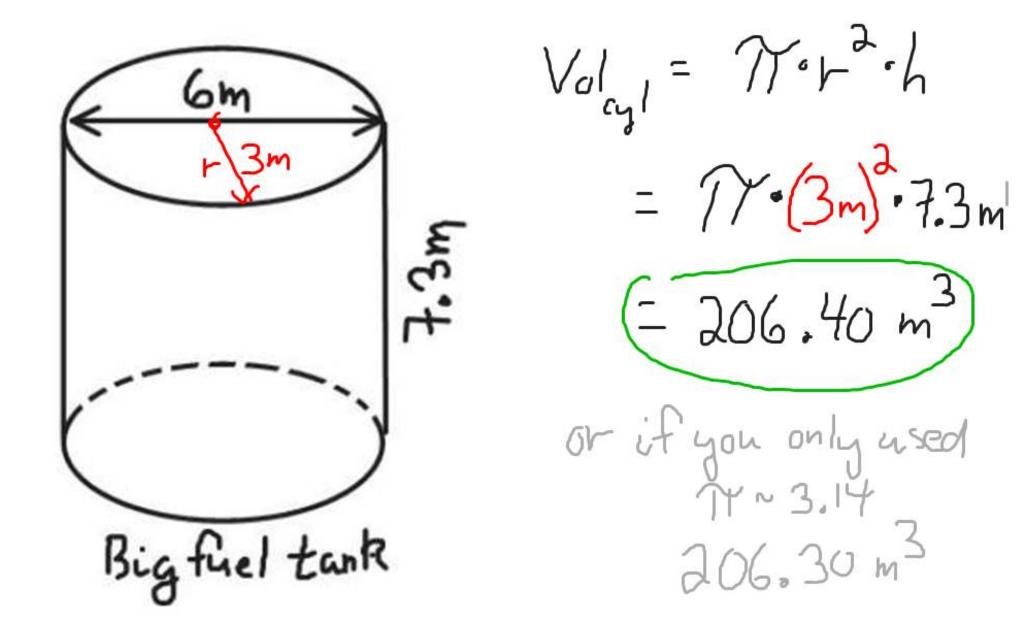


Kyra borrows \$600 dollars from a pay day loan for three months. The loan is calculated using just simple interest. Kyra pays back a total of \$660. The interest rate she was charged is:

- 0 40%
- 0 60%
- \$60
- 0.25

$$A = P + I$$
 $L$ 
 $660 = 600 + I$ 
 $T = $60$ 

Determine the volume of the entire large oil tank below. State your answer below



5 years ago I was half my mom's age. Mom was 32 five years ago. How old am I now? State Lots of way to solve! your answer below. Logic, guess and check, workbackwards, graphing, algebra Logic & bachwards If mom was 32 fiveyrs ago AND I was half of 32, then I was 16 five years ago If I was 16 five years then I must be (21 now!)

