

Grade 12 Essential Mathematics (40S)

Unit E: Vehicle Finance

General Questions		Answers
1	A computer costs \$500. What is the cost including PST (8%) and GST (5%)?	\$565
	The price of a \$10,000 snowmobile is reduced by 20%. What is the reduced price of the snowmobile (not including taxes)?	\$8000
3.	Solve for x : $\frac{200}{500} = \frac{x}{1000}$	400
4.	Solve for c : $\frac{8}{c} = 4$	2
5.	What is $\frac{400}{2000}$ as a percent?	20%
Unit	Questions	
	Navjot is a college student. Her gross monthly income is \$2000. She has rent at \$300 a month. She wants to buy a car with payments of \$100 a month. Calculate the ratio of her monthly debt to her monthly income.	20%
	Iliam is a successful businessperson. He grosses \$10,000 a month. He pays \$2200 a month for his rent and \$800 a month for his Mercedes Benz. He wants to purchase a second vehicle for \$800 a month. Calculate the ratio of his monthly debt to his monthly income.	38%
	Baloo wants to buy a new laptop computer. His gross monthly income is \$4000. He has a car loan with monthly payments of \$1000 and credit card payments of \$400 per month. How much can Baloo spend each month on a laptop to reach a maximum ratio of monthly debt to monthly income of 40% (which is \$1600)?	\$200
Other Questions		
9.		

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General Questions	Answers
1. Savanna was born in 1995. How old will she be in 2031?	36
2. Jackie wants to purchase a DVD for \$20, a sweater for \$60, a jacket for \$120, a pair of jeans for \$45, and hair products for \$25. If the bank machine only gives out money in multiples of \$20, how much money does Jackie need to withdraw from the bank machine to cover the costs of her purchases?	\$280
3. Burgandy needs to fundraise \$2000 for her school trip. If she earns a profit of \$4 from each box of chocolates she sells, how many boxes of chocolates does she need to sell to earn \$2000?	500
4. Evaluate: $\frac{2}{3} + \frac{2}{6}$	1
5. Your credit card has a balance of \$250. The minimum payment will be \$10 or 10% of your balance—whichever is greater. How much is your minimum payment?	\$25
Unit Questions	
6. A General Motors van has a base price of \$26,000. Optional equipment on the van includes a CD player for \$220, cruise control for \$500, and leather seats for \$1280. There is an excise tax of \$100 and a destination charge of \$800. Calculate the manufacturer's suggested retail price for the van.	\$28,900
7. Rohaan buys a Bentley car. She makes payments of \$800 a month for 5 years. She made a down payment of \$12,000. How much did she pay for the car?	\$60,000
8. Timon buys a Hyundai van. He makes payments of \$650 a month for 5 years. How much did he pay for the car?	\$39,000
Other Questions	
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10.	



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General Questions	Answers
1. Janique is paid \$5 each time she cuts a log. How much will she be paid if she cuts a log into quarters?	\$15
2. When Michelle first woke up, the temperature was -5° C. By the time Michelle got home from school, the temperature was 18° C. How much did the temperature rise during that day?	23° C
3. Samir buys a shirt for \$30. How much is the shirt, including 8% PST and 5% GST?	\$33.90
4. What is 11% of \$12,000?	\$1320
5. If 6% of \$1000 is \$60, what is 6% of \$1100?	\$66
Unit Questions	
6. Ralph buys a new 4-door sedan for \$40,000. Calculate the total PST and GST.	\$5200
7. Luna buys a used truck for \$9250. The book value of the truck is \$11,000. How much PST does she pay? (8% PST)	\$880
8. Barinder buys a used van for \$8000. He pays \$640 in PST, \$20 for a lien search, and \$42 for a safety inspection (including taxes). How much does he pay for the van?	\$8702
Other Questions	
9.	
10.	



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General Questions		Answers
1.	Tanner is trying to calculate the maximum Total Debt Service Ratio, which is 40% of his income. Tanner's gross income is \$50,000 a year. What is 40% of his income?	\$20,000
2.	Calculate the price, including 8% PST and 5% GST, of a vehicle on sale for \$22,000.	\$24,860
3.	Calculate the price, including tax (GST 5% and PST 8%), of a vehicle on sale for \$30,000.	\$33,900
4.	What is 20% of \$30,000?	\$6000
5.	Complete the pattern: 8, 4, 2, 1, $\frac{1}{2}$, $\frac{1}{4}$,,	$\frac{1}{8}$, $\frac{1}{16}$
Uni	t Questions	
6.	A \$40,000 truck depreciates 20% the first year. Calculate the total depreciation in the first year.	\$8000
7.	A \$30,000 car depreciates 10% the first year and then 10% more in the second year. Calculate the depreciation in the second year.	\$2700
8.	Carlos drove 50 km and he used 4.5 litres of gasoline. What is the fuel consumption rate of his vehicle in $L/100$ km?	9.0 L/100 km
Other Questions		
9.		
10.		

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General Questions			Answers
1.	Charlise sees a vehicle priced at \$27,500. If Charlise has a down payment of \$5250, what is the size of her loan?		\$22,250
2.	Shantelle is buying meat for a family reunion. She bought $8\frac{3}{4}$ pounds of hamburger, 20.25 pounds of chicken, and 9.5 pounds of steak. How		38.5
3.	many pounds of meat did Shantelle buy? On a math test, 22 students earned an A. This number is 20% of the total number of students in the class. How many students are in the class?	,	110 students
4.	Evaluate: $3 \times 5 + 6 - \frac{8}{2}$		17
5.	What is 11% of 3500?		385
Unit Questions			
6.	Neo has a merit discount of 11%. All-purpose vehicle insurance for Neo's sedan is \$1500 before the discount. Calculate the amount of Neo's merit discount.		\$165
7.	Krystian has a merit discount of 10%. All-purpose vehicle insurance for his van is \$2000 before the discount. How much will the insurance be after the discount?		\$1800
8.	Milan has a pleasure insurance rate of \$800. She has a 12% merit discount. How much will the insurance be after the discount?	•	\$704
Other Questions			
9.			
10.			