Grade 9 Mathematics (10F)

Strand: Number

Gei	neral Questions	Answers
1.	How many half-dozen packages of eggs does it take to get 420 eggs?	70 packages
2.	Evaluate: 32 ÷ 0.5	64
3.	How many centimetres are equivalent to 67 mm?	6.7 cm
4.	At the hardware store, the price of a tool box is \$300. It is on sale for 40% off. What is the sale price of the tool box?	\$180
5.	If Andre completed $\frac{3}{8}$ of his homework and Patricia completed $\frac{2}{3}$ of hers, who is closer to completing their homework?	Patricia
6.	If one notebook costs \$0.27, how much do 100 notebooks cost?	\$27
Uni	t Questions	
7.	Write the following in repeated multiplication form: 2 ⁵	$2 \times 2 \times 2 \times 2 \times 2$
8.	Evaluate: 3 ³	27
9.	Evaluate: 1 ⁸	1
10.	Evaluate: (-3) ⁰	1
Oth	ner Questions	
11.		
12.		

Grade 9 Mathematics (10F)



Strand: Number

Gei	neral Questions	Answers
1.	Add: 79 + 88 + 12	179
2.	Estimate the value of a 9% tip on a bill of \$51.30.	≈ \$5
3.	Gilles is paid commission at a rate of 5% of his sales. How much commission does Gilles earn if he sells a shirt for \$40?	\$2
4.	If 15 out of the 30 kids in French class read at least one book a month, what fraction of the kids are monthly readers?	$\frac{1}{2}$
5.	How many days are there in 18 weeks?	126 days
6.	Subtract: $\frac{4}{5} - \frac{9}{25}$	11 25
Uni	t Questions	
7.	Write the following multiplication in exponent form: $5 \times 5 \times 5 \times 5 \times 5 \times 5$	56
8.	Which is larger: 3^4 or 4^3 ?	34
9.	Find the difference: $2^6 - 2^3$	56
10.	Evaluate: $5^2 + 4^0$	26
Oth	er Questions	
11.		
12.		

Grade 9 Mathematics (10F)



Strand: Number

12.

General Questions	Answers
1. If, on average, a cafeteria sells 42 tuna sandwiches each day, how many would be sold in 5 days?	210 sandwiches
2. Write $\frac{2}{5}$ as a number in decimal form.	0.4
3. How much change will you get back if you make a purchase of \$38.17 using a \$50 bill?	\$11.83
4. Add: $\frac{3}{5} + \frac{54}{10}$	$\frac{60}{10}$ or 6
5. To receive 80% on a test worth 40 marks, how many marks do you need?	32 marks
6. If you run at a speed of 3 m/s for 300 s, how many metres will you run?	900 m
Unit Questions	
Simplify the expressions by writing the results in exponent form.	
7. $(6^3)(6^2)$	6 ⁵
8. $\frac{7^{12}}{7^4}$ 9. $(9^2)^3$	78
9. $(9^2)^3$	96
10. $(12^4)^0$	12 ⁰ or 1
Other Questions	
11.	

Grade 9 Mathematics (10F)



Strand: Number

Gei	neral Questions	Answers
1.	One-quarter of 88 houses on the same street have two-door garages. How many houses does that represent?	22 houses
2.	If Sonia earns \$28 per shift, how much money will she earn after 4 shifts?	\$112
3.	Add: 31 + (-19)	12
4.	Eight out of 25 students in your swimming class swim 3 mornings per week. What percentage of students does that represent?	32%
5.	How many 25¢ coins are equivalent to \$7.50?	30 quarters
6.	Simplify the fraction $\frac{-25}{75}$.	$-\frac{1}{3}$
Uni	t Questions	
7.	Simplify the expression and write it in exponent form: $(13^2 \times 13^7)^4$	13 ³⁶
8.	Simplify: $\left(\frac{2}{3}\right)^3$	<u>8</u> <u>27</u>
9.	Simplify: $4^2 \times 5^2$	400
10.	Simplify: $\frac{3^2 + 8^0}{5^2}$	$\frac{2}{5}$
Otł	ner Questions	
11.		
12.		

A-5

Grade 9 Mathematics (10F)

Strand: Number Specific Learning Outcome: 9.N.3

General Questions	Answers
1. Simplify the fraction $\frac{-8}{-36}$.	$\frac{2}{9}$
2. Subtract: $\frac{9}{2} - \frac{5}{2}$	2
3. What is the cost of 4 pens if each pen costs \$1.97?	\$7.88
4. What is the probability of flipping a 25¢ coin and receiving heads?	$\frac{1}{2}$
5. The square root of 71 is found between which two consecutive whole numbers?	8 and 9
6. The monthly rent on an apartment is \$600. If the rent is raised by 1%, what is the new cost to rent the apartment each month?	\$606
Unit Questions	
7. Find the value of the decimal that corresponds to $0.7 + \frac{3}{5}$.	1.3
8. Put the following in ascending order: $\frac{3}{4}$, $\frac{2}{5}$, $\frac{4}{6}$	$\frac{2}{5}, \frac{4}{6}, \frac{3}{4}$
9. The fraction $\frac{37}{8}$ is found between which two consecutive whole numbers?	4 and 5
10. Find the fraction that corresponds to $0.8 + \frac{2}{5}$.	$\frac{6}{5}$
Other Questions	
11.	
12.	

Grade 9 Mathematics (10F)



Strand: Number

12.

Ger	neral Questions	Answers
1.	Joel mixes one box of orange juice with four boxes of water. Express the mix in ratio form.	1:4
2.	If 1 kilogram is equivalent to 2.2 pounds, how many pounds are in 100 kg?	220 pounds
3.	How much money would you earn if you worked 40 hours at \$7.50 per hour?	\$300
4.	What is the next number in the following sequence: 2, 4, 8, 16,?	32
5.	Evaluate the circumference of a circle with a radius of 5 cm if $\pi \approx 3$.	30 cm
6.	Place the following in ascending order: $0.7, \frac{8}{9}, \frac{1}{3}, 0.09$	$0.09, \frac{1}{3}, 0.7, \frac{8}{9}$
Uni	t Questions	
7.	Place the following in ascending order: -0.2 , $-\frac{4}{7}$, -0.8 , $-\frac{1}{6}$	$-0.8, -\frac{4}{7}, -0.2, -\frac{1}{6}$
8.	Multiply: $7^0 \times 5^2$	25
9.	Write $\frac{7}{20}$ in decimal form.	0.35
10.	Write 0.56 as a reduced fraction.	$\frac{14}{25}$
Oth	ner Questions	
11.		

Grade 9 Mathematics (10F)

Strand: Number

Gei	neral Questions	Answers
1.	Multiply: $9 \times \frac{2}{3}$	6
2.	If you leave a tip of 10% on a bill of \$34, what is your total cost?	\$37.40
3.	Reduce the fraction $\frac{15}{45}$.	$\frac{1}{3}$
4.	What two numbers have a sum of 9 and a product of 20?	4 and 5
5.	Calculate the perimeter of a garage with a width of 8 m and a length of 16 m.	48 m
6.	What is the total cost of 5 flower pots if each pot costs \$3.50?	\$17.50
Uni	t Questions	
7.	Evaluate: 2(3) ²	18
8.	Evaluate: $50 - 2^5$	18
9.	Evaluate: -4^2	-16
10.	Evaluate: $1 + 2 \times 3 + 4$	11
Oth	ner Questions	
11.		
12.		

Grade 9 Mathematics (10F)



Strand: Number

Ger	eral Questions	Answers
1.	David spends at least 65 minutes a day at the Fitness Centre. How many minutes does he spend in 5 days?	325 minutes
2.	Evaluate: $5^2 + 10^2$	125
3.	The square root of 111 is found between which two consecutive whole numbers?	10 and 11
4.	The price of a \$320 camera is reduced by 40%. What is the amount of the reduction?	\$128
5.	Write the expression that represents twice the sum of x and 5.	2(x + 5)
6.	Express $\frac{1}{4}$ as a number in decimal form.	0.25
Uni	t Questions	
7.	Evaluate: $(5^2 - 2^4) \times 3$	27
8.	Evaluate: $(12 - 3 \times 3) \times 5$	15
9.	Evaluate: $10 + (2 \times 3 - 15)^0$	11
10.	In an enclosure, there are 11 rabbits and 3 ducks. Calculate the number of legs.	50 legs
Oth	er Questions	
11.		
12.		

A-9

Grade 9 Mathematics (10F)

Strand: Number Specific Learning Outcome: 9.N.5

General Questions	Answers
1. What is the price of 3 barbecues at \$199 each?	\$597
2. In a volleyball team with 12 players, 8 of them measure more than 2.0 m. What fraction of the players does this represent?	$\frac{2}{3}$
3. Estimate: $\sqrt{1620}$	≈ 40
4. If the price of a \$40 blouse is raised by 10%, what is the new price of the blouse?	\$44
5. Divide a bill for \$36.03 equally among 3 people.	\$12.01/person
6. Is the quotient, $\frac{-0.22}{-0.12}$, positive or negative?	positive
Unit Questions	
7. Evaluate: $\sqrt{\frac{16}{25}}$	$\frac{4}{5}$
8. Find the negative square root of $\frac{81}{49}$.	$-\frac{9}{7}$
9. Evaluate: $\sqrt{25} + \sqrt{36}$	11
10. Determine the value of $\sqrt{(9 + 4 \times 5 \times 2)}$.	7
Other Questions	
11.	
12.	

Grade 9 Mathematics (10F)



Strand: Number

Ger	neral Questions	Answers
1.	If you read 132 pages of a 400-page book, how many pages do you have left to read?	268 pages
2.	Add: -33 + 18	-15
3.	If you buy an item that costs \$13.65 with a \$20 bill, how much money will you get back?	\$6.35
4.	How many months with 31 days are there in a year?	7
5.	Is the value of the expression $3^2 + 5^2 - 6^2$ negative or positive?	negative
6.	Rene is 37 years old. Her son, Joel, is 13 years old. How old was Rene when her son was born?	24 years old
Uni	t Questions	
7.	Evaluate: $-\sqrt{625}$	-25
8.	Evaluate: $\sqrt{3^4}$	9
9.	Evaluate: $\sqrt{152^2}$	152
10.	Which of the following numbers are perfect squares? 2 144 120 92 4900	144 and 4900
Oth	er Questions	
11.		
12.		

Grade 9 Mathematics (10F)



Strand: Number

Gei	neral Questions	Answers
1.	Add: $\frac{1}{6} + \frac{1}{7}$	$\frac{13}{42}$
2.	If a total of 408 spectators came to your school's tennis tournament last Friday and Saturday, how many spectators came on average each day?	204 spectators
3.	Write $\frac{1}{5}$ in decimal form.	0.2
4.	Colin has \$29 more in his pocket than Sylvie. If Sylvie has \$45, how much money does Colin have?	\$74
5.	Reduce the ratio 35:15 to its simplest form.	7:3
6.	If you work 40 hours at \$7 per hour, how much money will you earn?	\$280
Uni	t Questions	
7.	Evaluate: $\sqrt{\frac{9}{16}}$	$\frac{3}{4}$
8.	What is the negative square root of the expression $99 - 5 + 3 \times 2$?	-10
9.	Evaluate: $13 - \sqrt{144} \times 5$	-47
10.	The square root of a number is 14. What is that number?	196
Oth	ner Questions	
11.		
12.		

Grade 9 Mathematics (10F)

A-12

Strand: Number

Gei	neral Questions	Answers
1.	Evaluate: $18 + 6 \div 2 \times 3$	27
2.	What is the perimeter of an equilateral triangle if each side measures 15 m?	45 m
3.	Determine the total cost of your lunch at the school cafeteria from Monday to Friday, if you spend at least \$7.50 per lunch.	\$37.50
4.	What is the lowest common denominator of $\frac{5}{6}$ and $\frac{9}{10}$?	30
5.	If 22% of 50 students are part of the school orchestra, how many students does that represent?	11 students
6.	If a turkey takes 4.5 hours to cook, how many minutes does it take?	270 minutes
Uni	t Questions	
7.	The value of $\sqrt{21}$ is found between which two consecutive numbers?	4 and 5
8.	Estimate the value of $\sqrt{30}$.	≈ 5.2 to 5.5
9.	Find the value of $\sqrt{0.16}$.	0.4
10.	The value of $\sqrt{87}$ is found between which two consecutive numbers?	9 and 10
Oth	ner Questions	
11.		
12.		

Grade 9 Mathematics (10F)

A-13

Strand: Number

General Questions		Answers
1.	Find the equivalent fraction of $\frac{31}{100}$ if its denominator is 1000.	310 1000
2.	Determine the total cost if you buy a pair of runners that costs \$74, a ball that costs \$89, and a water bottle that costs \$11.	\$174
3.	What two numbers have a sum of 5 and a product of 4?	1 and 4
4.	If you make a purchase of \$8.41 with a \$20 bill, how much money will you get back?	\$11.59
5.	What is the next number in the sequence: 15, 21, 27, 33,?	39
6.	On a test with 199 multiple choice questions, you received 149 correct answers. Estimate your results as a percentage.	≈ 75%
Unit Questions		
7.	Estimate the value of $\sqrt{9.2 \times 4.3}$ as a whole number.	≈ 6
8.	Determine the approximate value of $\sqrt{\frac{17}{50}}$ (as a fraction).	$pprox rac{4}{7}$
9.	The value of the negative square root of 88 is found between what two integers?	−9 and −10
10.	Find the value of $\sqrt{0.0025}$.	0.05
Other Questions		
11.		
12.		