MIDTERM REVIEW

Complete the following math questions. You will see these same topics on the Mid Term Exam. If you do not have enough space, use loose leaf paper. SHOW YOUR WORK FOR EACH QUESTION.

1. Ryan goes to a used bookstore where they're having a big sale. Paperback books are on sale for \$1.50 each and hardcover books are \$5.75. Ryan buys 5 paperbacks and 2 hardcovers. Write an equation (math sentence) to find out how much Ryan paid for the books.

$$P = 1.50 \times 5 = 17.50$$

 $H = 5.75 \times 2 = 11.50$ Total: \$19.00
 $(1.50 \times 5) + (5.75 \times 2) = 19$

2. Find the answer:

$$\frac{14 \times 5 + 50^{\circ} \times 10 = ?}{70 + 1 \times 10}$$

$$\frac{14 \times 5 + 50^{\circ} \times 10 = ?}{10 \times 10}$$

3. Which equation below has an answer of 32? Show your work for each question.

a.
$$4+5\times3+5=$$

 $4+15+5\approx24$

b.
$$4 + (4 \times 5) + 8^0 =$$

 $4 + 20 + 1 = 25$

c.
$$4 + 8^1 + 4 \times 5 =$$

 $4 + 8 + 20 + 32$

d.
$$1^6 \times 1^6 = \frac{1}{|X|} \times \frac{1}{|X|} = \frac{1}{|X|}$$

4. Find the answer:

A)
$$4 \times 7 + 8 \div 2 = ?$$
 $28 + 4$

B)
$$12 \div 6 \times 8 - 10 \div 2 = ?$$

 $2 \times 9 - 5$
 $16 - 9 = 11$

- 5. Mary bought school supplies. She bought 6 notebooks that cost 0.39 cents each, then 2 packages of pencils at 0.79 cents each and finally one binder for \$1.99.
 - A) Write an equation to show the total that Mary spent on school supplies.
 - B) How much did she spend? \$5.91

A)
$$(6 \times 0.39) + (2 \times 0.79) + 1.99$$

= $2.34 + 1.53 + 1.99$
= $^{4}5.91$

6. Find the answer:

$$[(2 + 24 \times 4)] \div [10 \div (4 - 4^{\circ} \times 3)] = ?$$

$$(2 + 96) \div [10 \div (4 - 1 \times 3)]$$

$$(98) \div [10 \div (4 - 3)]$$

$$98 \div [10 \div (1)]$$

$$98 \div [10 \div (1)]$$

7. Mr. Wagner took his family out for dinner. They ordered 3 different meals, that cost \$10.99 each, 2 sodas at \$3.00 each and 1 glass of teal at \$1.25. Write an equation and find the total that Mr. Wagner spent on dinner (no taxes or tip needed).

$$3 \times 10.99 + 2 \times 3 + 1.25$$

= $32.97 + 6 + 1.25$
= 40.22

9. Use the table to answer questions # 9-11

City	High Temperature	Low Temperature	
Montreal	(5)	-33	
St. Jean	-8	-35	
Bromont	(-9)	-28	
Sorel	-1	-40	

A) What is the range of all the High temperatures? 5 - (-9) =5++9 (14)

B) What is the range of only the Low temperatures?

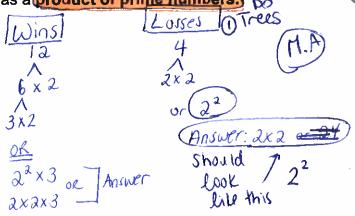
11. What is the average of High temperatures?

$$5+-8+-9+-1=-13$$

 $-13+4=-3.25$

B) What is the average of low temperatures?

8. A football team's record for the season is 12 wins and 4 losses. Write their record in a sentence as a product of prime numbers.



10. Arrange the temperatures from the whole table, in order from the greatest to lowest.

12. Mr. Olivier pays close attention to how much money is in his account. One week, he deposits \$230.00, then he spends \$15.00 on lunch twice, d then gave \$25.00 to a friend.

A) Write down an order of operations and then gave \$25.00 to a friend.

$$230 + (-15 \times 2) + -25$$

B) How much does he have at the end of the week?

13. How much would Steven pay for 4 bottles of Pepsi if the price for 12 bottles of Pepsi is \$3?

3-12=0.25 Unit Price

4 XO. 25= \$1.00 for 4 Pepsi Bottles. 14. Charles went to the grocery store and bought four salmon steaks for \$6.95 each, 8 potatoes for \$0.75 each and two loaves of bread for \$3.95 per loaf. If he gives the cashier three twenty dollar bills, how much change will he get back?

 $\frac{4 \times 6.95 + 8 \times 0.75 + 2 \times 3.95}{\sqrt{}}$

27.80 + 6 + 7.90

\$41.70 spent at the store

3 x 20 = \$60 - 41.70 = \$18.30 back from cashier

- 15. Find the answer for each situation below:
 - a) How many hours did Brett work if his hourly rate is \$12/hr and he received \$228?

228-12= 19hours

b) Find the unit rate: 4 dozen golf balls cost \$60

4x12=48golf balls

60 -48 = 1.25 / golf ball (per)

16. What is the type of variable in the following situation?

High school students were asked "what career they think they will want to pursue when they graduate from high school".

Qualitative Variable

17. Vincent decided to start exercising. He goes to the Fitness Depot store near his house. He bought 2 benches for \$30.58 each, 1 stationary bike for \$319.82 and 3 dumbbells for \$45.20 each. If he gave a deposit of \$320 and agreed to pay the balance in two equal payments, how much would each payment be?

 $2 \times 30.58 + 319.82 + 3 \times 45.20$ 61.60 + 319.82 + 135.60Spent in total= \$516.58 \$516.58 + 320 = 196.58 + 2

> 198.29 each installment

18. Ella had an overall term average of 72% last term. This term, six of her grades were 95, 80,72, 50, 74 and 88. Did Ella get a better average this term or last term?

95+80+72+50+74 +88

= 76.50 - 77%

Ella got a better average THIS term

19. Explain why the following question asked in a survey is biased:

"Old Spice cologne smells kind of bad to me, don't you agree?

Influencing or leading people to give a certain Answer. *Give an opinion on this cologne, but not Others.

20. Jeremy decreased the speed of his car by 15 kilometres in 10 seconds. How much did he decrease his speed per second?

22. Alexia wants to give her dog a special treat.

and 54 pieces of beef jerky. If she wants to give

her dog the same number of treats every day,

She looks in her cupboard and sees 81 dog bones

15 Km / 10 sec = 1.5 Km/sec (Activity: Time)

21. Volunteers at a bake sale sold slices of banana bread and raisin bread. They packaged both kinds of bread together. They have 63 slices of banana bread and 45 slices of raisin bread. They want to use all the bread in their packages and have no left over's.

A) What is the greatest number of packages

they can put together? 9 is the greatest number of packages.

what is the greatest number of days she can give the dog these treats? 27 days B) How many of each kind of treat will she give her dog?

3x3x3=27 days

Bones: D_1 = 3 bones $3 \times 3 \times 2$ $3 \times 3 \times 2$ Jerky = 54-27

B) How many slices of each kind of bread is there in one package? B= 63 slius Banana

23. A radio station is giving away a discount coupon to Best Buy to every ninth caller and a free concert ticket to every 20th caller. Which caller will be the first to win both prizes?

9 3 3 = 3 x 3 x 5 x 4 = 180th caller

24. Lea is a deep sea diver. She descends below the surface of the water at a rate of 60 feet each minute. What is her depth after 10 minutes?

60 feet = 1 minute 60 feet x 10 minutes 600feet

NAME:	 	

25. Find the Degrees for each category below:

Categories	Amount of Money	Degrees on Circle Graph
Rent	1800	1775 178
Food	800	79'
Utilities	300	29.5 30.
Transportation	450	44'
Other	300	29.5 ~ 30
Total	3650	360

SHOW YOUR WORK BELOW:

27. The points awarded to the winners in the men's Olympic platform diving competition are shown. Order them from highest to lowest.

Year	Points	Year	Points
1972	504.12	1984	710.91
1976	600.51	1988	638.61
1980	835.65	1992	677.31

$$(1980) = 833.65$$

 $(1984) = 710.91$
 $(1992) = 677.31$
 $(1989) = 638.61$
 $(1976) = 600.51$
 $(1972) = 504.12$

26. The table below shows the professions of all of the members of a racket club. What percentage of the club members are actors?

Profession	Number of Members	
Teachers	115	
Lawyers	51	
Computer	120	
Programmers		
Actors	103	
Other	126	
Total	515	

b) Find the % for all the other jobs:

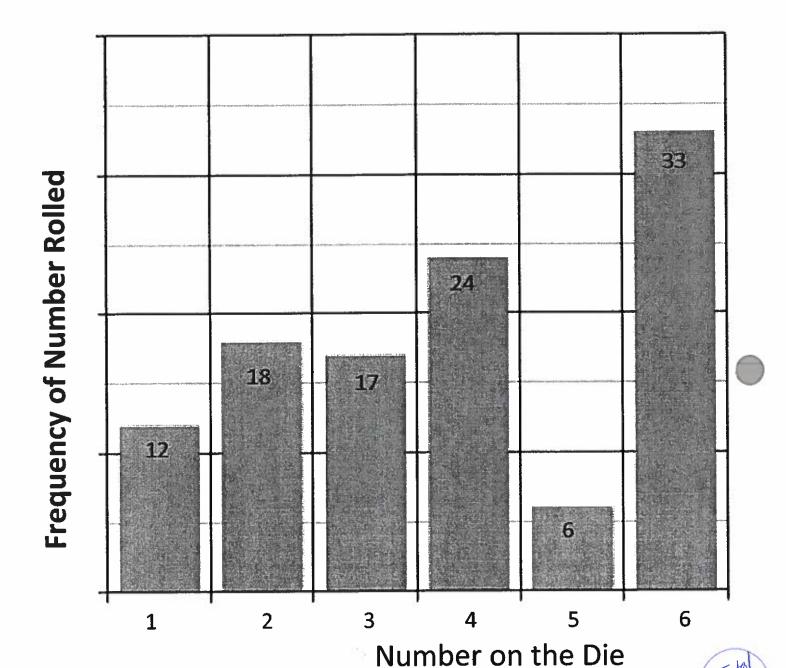
Teachers=
$$115 \div 517 = 22.3 \rightarrow 22.1$$
.
Lawyers= $(51 \div 515) \times 100 = 9.9 \rightarrow 10.7$.
Comp. Prog= $(120 \div 515) \times 100 \Rightarrow 23.1$.
Actors= $(103 \div 515) \times 100 \Rightarrow 20.7$.
Other= $(126 \div 515) \times 100 \Rightarrow 24.46 \rightarrow 25.7$.

28. Round the numbers in the table to the position requested.

River	Length (km)		Nearest Thousand
Mackenzie	4241	4200	4000
St. Lawrence	3058	3100	3000
Yukon	3185	3200	3000
Peace	1923	1900	2000
Athabasca	1231	1200	1000
Ottawa	1271	1300	1000

29.

Die Experiment



Using the bar graph above, answer the following questions:

a. How many times was the die thrown? 12+18+17+24+6+33= 10 times

#2 18 = 167. b. What percent of the throws landed on1 or 2? 12/110 (117. = 11

c. Are there any things missing/wrong with this graph? Or biased? List them.

- Frequency Scale-has No numbers? -No rero??

30. Complete the Table of Values using the data from the bar graph below.

TODAY'S BREAKFAST > Confusing Title = Fanctite??

230

230

36

17

Mussing Axis

Label:

Paractest

2xractest

Choices	Frequency	Percent
EGGS	230	(230÷477) ×100 = 48%
CEREAL	92	(92:477) ×100 = 19%
Datmeac	36	(36:477) × 100 = 7.5=81.
BAGEL/ MUFFIN	102	(102:477) x 100 = 211.
OTHER	17	(17-477) ×100 = 4%
7	FTotal = 477	=1007.

*Total = 447

a. What kind of variable is being studied here?

Qualitative.

b. Are there any things missing/wrong with this graph? Or biased? List them.

(3) Does Not start at zero (4) Axis Not labelled (3) Title can be confusion (6) Bagel + muffin-need to be separate categories.

