



**CRHS**

**SEC. 1 MATH**

**JUNE REVIEW PACKAGE**

Name: \_\_\_\_\_

**MARCH: MATH SUMMATIVE****PART A: NO CALCULATOR**

Put the **LETTER** of the correct answer on the Answer Sheet.  
You have 25 minutes for this section.  
Each question is worth 2 marks. Value of this section: 20 marks.

1. A television announcer revealed that the amount of money won in the Lotto 6/49 was seven million thirty-seven thousand sixty-five dollars.

Which number represents this amount?

- A) 73 765
- B) 737 065
- C) 7 037 065
- D) 703 765

2. A satellite travelled a distance of 36 500 000 km.  
Express this distance in **SCIENTIFIC NOTATION**.

- A)  $0.365 \times 10^8$
- B)  $3.65 \times 10^7$
- C)  $3.65 \times 10^6$
- D)  $365 \times 10^5$

3. The temperature in Edmonton was  $-16^\circ\text{C}$  at noon. Later that afternoon the temperature rose to  $7^\circ\text{C}$ .

By how much did the temperature rise?

- A)  $-7^\circ\text{C}$
- B)  $7^\circ\text{C}$
- C)  $-23^\circ\text{C}$
- D)  $23^\circ\text{C}$

4. During a rally, Stacey drank  $1\frac{1}{2}$  litres of water. Jamal drank  $\frac{3}{4}$  of a litre, and Jillian  $\frac{2}{3}$  of a litre.

How many litres did they drink in total?

- A)  $2\frac{2}{3}$
- B)  $2\frac{7}{12}$
- C) 2
- D)  $2\frac{11}{12}$

5. Using the following numbers:

7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33

What fraction of these numbers are COMPOSITE NUMBERS?

- A)  $\frac{4}{7}$
- B)  $\frac{1}{2}$
- C)  $\frac{3}{7}$
- D)  $\frac{5}{14}$

6. What is the value of  $n$ ?

$$\frac{n}{8} = \frac{18}{12}$$

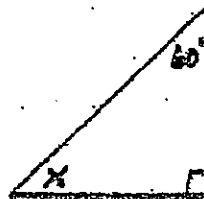
- A) 10
- B) 6
- C) 12
- D) 9

7. Express 95% as a fraction in lowest terms.

- A)  $\frac{95}{100}$
- B)  $\frac{19}{20}$
- C)  $\frac{9}{10}$
- D)  $\frac{38}{40}$

8. Find the missing angle:

- A)  $60^\circ$
- B)  $50^\circ$
- C)  $45^\circ$
- D)  $30^\circ$



9. Which expression is equivalent to

$$8 + 2 \times 5 + 3 \times 4$$

- A)  $(8 + 2) \times (5 + 3) \times 4$
- B)  $[(8 + 2) \times 5] + (3 \times 4)$
- C)  $8 + 2 \times (5 + 3 \times 4)$
- D)  $8 + (2 \times 5) + (3 \times 4)$

10. In which statement below can the ? be replaced by an equal sign (=) ?

- A)  $1^2$  ?  $2^1$
- B)  $3^2$  ?  $2^3$
- C)  $1^2$  ?  $1^3$
- D)  $5^0$  ?  $5^1$

Name: \_\_\_\_\_

4

## MARCH: MATH SUMMATIVE

### PART B: SHORT ANSWERS

Answer in the space provided. No marks will be given without appropriate work shown.

Calculator is permitted.

You have approximately 25 minutes.

Each question is worth 3 marks. Value of this section: 30 marks.

1. Evaluate

$$\frac{80 + (2 \times 3.5)^2}{-32 - (-1)}$$

2. For one week last January, Alison and Cliff recorded the outside temperature every day at noon. The results are shown in the table below.

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
-6°C	-15°C	-20°C	-4°C	8°C	10°C	-8°C

a) What was the average temperature at noon during this week in January?

b) On which days of the week was the temperature greater than the average temperature?

3. Using the following numbers?

$\frac{7}{8}$

70%

0.87

$\frac{3}{2}$

A) Arrange the numbers in order from largest to smallest.

B) What is the sum of the largest and smallest numbers?

4. Simplify

$$\frac{3}{10} \times \frac{6}{8} + \frac{1}{2}$$

5. Shamir is giving out 49 invitations to his party.

On Wednesday, Shamir handed out  $\frac{1}{3}$  of the invitations.

On Thursday, he handed out  $\frac{3}{7}$  of them.

A) What fraction of the invitations have been handed out?

B) How many invitations are still to be handed out?

6. Study this pattern made with matches.

6



Figure 1

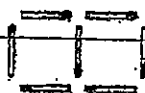


Figure 2

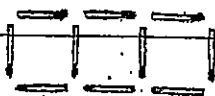


Figure 3

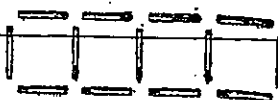


Figure 4

A) State the number of matches in the next two figures of the pattern.

There are \_\_\_\_\_ and \_\_\_\_\_ matches.

B) Which one of the following 4 rules can be used to find number of matches used for any figure in the pattern? (Let  $x$  represent the number of the figure.)

$(x+3)$

$(3x+1)$

$(3x+3)$

$(3x-1)$

The rule is \_\_\_\_\_

C) State the number of matches that would be found in figure 40. Show your work.

Figure 40 has \_\_\_\_\_ matches.

7. Find two numbers whose product is  $(-24)$  and whose sum is  $(+5)$ . Remember to prove your answers.



3. Peter opened his cereal box and found a ticket for a free VCR if he could answer the following skill testing question. He gave 180 as an answer. Explain why he should not get the prize.

The question was:

$$(-6) + (10)^2 \div (0.05) - 2(3-7)$$

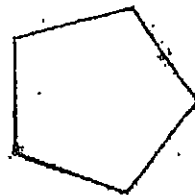
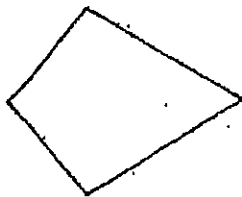
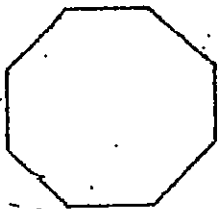
9. Identify each polygon. Place the correct letter beside each shape.

A. hexagon

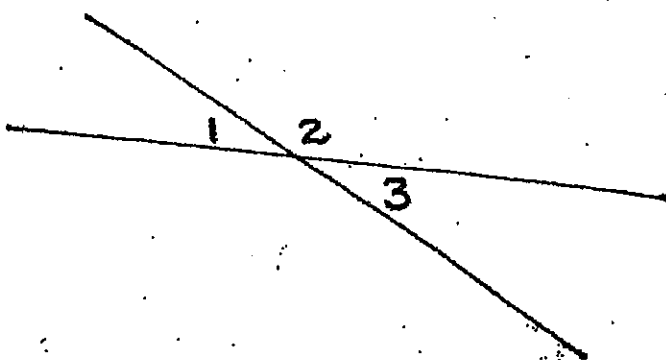
B. pentagon

C. octagon

D. quadrilateral



10. Refer to the diagram below to answer the following questions.



A) Angle 1 and angle 2 equal  $180^\circ$ . They are \_\_\_\_\_ angles.

B) If angle 1 is equal to  $35^\circ$ , then angle 2 equals \_\_\_\_\_ degrees.

C) Angle 3 is equal to \_\_\_\_\_ degrees.



9

1) ANDREW WORKED IN AN ORCHARD PICKING APPLES. IN 5 DAYS HE PICKED THE FOLLOWING NUMBER OF BOXES OF APPLES.

<u>DAY</u>	<u>NUMBER OF BOXES PICKED</u>
1	$3 \frac{2}{3}$
2	$5 \frac{5}{6}$
3	2
4	$3 \frac{1}{4}$
5	$1 \frac{3}{4}$

\*EACH BOX, WHEN FULL, CONTAINED EXACTLY 40 APPLES.

\*AN INSPECTOR FOUND THAT  $\frac{1}{10}$  OF THE APPLES PICKED WERE NOT GOOD.

OF THE APPLES ANDREW PICKED, HOW MANY GOOD APPLES WERE LEFT?

(OPERATIONS: ADD/MULTIPLY FRACTIONS; SUBTRACTION)

WORK

THERE WERE \_\_\_\_\_ GOOD APPLES LEFT.

2) FOUR PUBLI-SAC GUYS LEAVE THE TRUCK AT 7:15 AM. THEY EACH DO A DIFFERENT ROUTE OVER AND OVER.

\*IT TAKES EACH GUY A CERTAIN TIME TO COMPLETE THEIR ROUTE AND RETURN TO THE TRUCK.

GUY 1	15 MINUTES
GUY 2	45 MINUTES
GUY 3	20 MINUTES
GUY 4	30 MINUTES

\*IF THEY CONTINUE THEIR ROUTES ON SCHEDULE, THE FOUR GUYS MEET BACK AT THE TRUCK:

A) IN HOW MANY MINUTES? B) IN HOW MANY HOURS? C) AT WHAT TIME?

(OPERATION: LOWEST COMMON MULTIPLE)

WORK

A) HOW MANY MINUTES ? \_\_\_\_\_  
 B) HOW MANY HOURS ? \_\_\_\_\_  
 C) AT WHAT TIME ? \_\_\_\_\_

11

3) FOR HER BIRTHDAY PARTY FOR 12 PEOPLE, INCLUDING HERSELF, JOSÉE HAD A SHOPPING LIST WITH THE FOLLOWING AMOUNTS OF EACH ITEM:

AMOUNT	ITEM
600 GRAMS	POTATO CHIPS
8 LITRES	COLA
12	GOODIE BAGS
36	MINI-PIZZAS

\*OOPS!! FIVE PHONE CALLS TO CANCEL AND NOW ONLY 7 PEOPLE, INCLUDING JOSÉE, ARE COMING.

WHAT AMOUNT OF EACH ITEM DOES SHE NEED TO BUY NOW ONLY 7 ARE ATTENDING THE PARTY?(each person would always eat the equivalent amount)

(OPERATIONS: PROPORTION; CROSS-MULTIPLICATION)

WORK

THE AMOUNT OF EACH ITEM SHE HAS TO BUY ARE:

- \_\_\_\_\_ GRAMS OF POTATO CHIPS
- \_\_\_\_\_ LITRES OF COLA
- \_\_\_\_\_ GOODIE BAGS
- \_\_\_\_\_ MINI-PIZZAS

12

4) AT THE AVRIL LAVIGNE CONCERT, THERE WERE 120 SPECIAL SEATS AVAILABLE NEAR THE STAGE.

\*40% OF THESE SEATS WERE BOUGHT FOR \$100.00 EACH BY MIX '96 AS GIVEAWAY PRIZES IN A CONTEST.

\* $\frac{1}{3}$  OF THESE SPECIAL SEATS WERE BOUGHT FOR \$125.00 EACH BY HER MONTREAL FAN CLUB.

\*MRS. MARRIOTT BOUGHT THE REST OF THE SPECIAL SEATS FOR \$100.00 EACH TO GIVE TO STUDENTS AT CENTENNIAL.

A) WHAT WAS THE TOTAL MRS. MARRIOTT HAD TO PAY FOR ALL THE TICKETS SHE BOUGHT?

B) WHAT WAS THE TOTAL AMOUNT PAID BY MRS. MARRIOTT, MIX '96 AND THE FAN CLUB TOGETHER?

(OPERATIONS: MULTIPLY AND DIVIDE DECIMALS; MULTIPLY FRACTIONS.)

WORK

A) THE TOTAL AMOUNT MRS MARRIOTT PAID WAS \_\_\_\_\_

B) THE TOTAL PAID FOR ALL 120 TICKETS WAS \_\_\_\_\_

5) A DEEP SEA DIVER DECIDED TO INVESTIGATE A SHIPWRECK THAT WAS ON THE BOTTOM OF THE OCEAN.

\*IT WAS 56 METERS BELOW THE SURFACE.

\*THE TEMPERATURE OF THE WATER AT THE SURFACE WAS  $19^{\circ}\text{C}$

\*FOR EVERY 4 METERS SHE DROVE TOWARD THE SHIPWRECK, THE WATER TEMPERATURE DECREASED BY  $0.3^{\circ}\text{C}$

WHAT WAS THE WATER TEMPERATURE AT THE SHIPWRECK ON THE FLOOR OF THE OCEAN?

(OPERATIONS: INTEGERS; DRAW A DIAGRAM)

WORK

THE WATER TEMPERATURE AT THE SHIPWRECK WAS \_\_\_\_\_  $^{\circ}\text{C}$

6) THREE TYPES OF SPORTS DRINK ARE AVAILABLE AT LOBLAW'S, SELLING FOR THE FOLLOWING PRICES.

- 1) GATORADE - 5.0 LITRES FOR \$ 5.50
- 2) POWERADE - 7.5 LITRES FOR \$ 8.50
- 3) QUENCH - 6.0 LITRES FOR \$ 8.00 (2ND BOTTLE - 40% OFF)

\*JOHN BOUGHT ONE BOTTLE OF GATORADE.

\*MONIQUE BOUGHT ONE BOTTLE OF POWERADE.

\*WAYNE BOUGHT TWO BOTTLES OF QUENCH.

- A) WHO GOT THE BEST DEAL?      B) WHAT WAS THE COST PER LITRE ?

(OPERATIONS: UNIT PRICING; MULTIPLY/DIVIDE DECIMALS)

WORK

- A) \_\_\_\_\_ GOT THE BEST DEAL FOR THE SPORTS DRINK.
- B) THE BEST DEAL COSTS \_\_\_\_\_ PER LITRE.

15

7) TRIANGLE EFG IS A RIGHT ANGLE TRIANGLE

\*ANGLE EFG MEASURES  $40^\circ$

\*AE, BE & CD EACH MEASURE 4.5 CM

WHAT IS THE MEASURE OF ANGLE EBC?

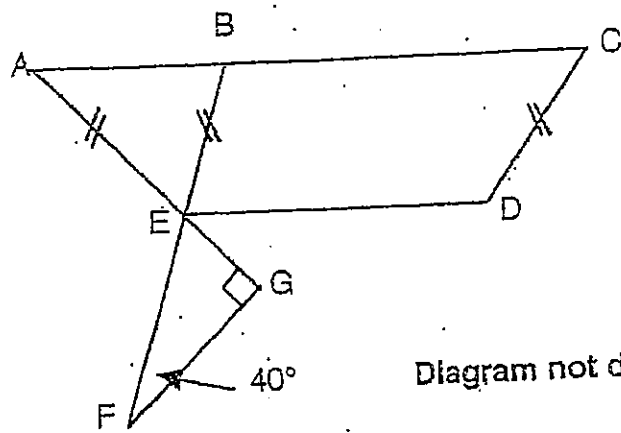


Diagram not drawn to scale !

(OPERATIONS: SUM OF ANGLES OF TRIANGLE; OPPOSITE ANGLES;  
ISOSCELES TRIANGLE; SUPPLEMENTARY ANGLES.)

WORK

MEASUREMENTS:

1) ANGLE FEG = \_\_\_\_\_ $^\circ$

2) ANGLE AEB = \_\_\_\_\_ $^\circ$

3) ANGLES EAB & EBA = \_\_\_\_\_ $^\circ$

THEREFORE,

4) ANGLE EBC = \_\_\_\_\_ $^\circ$

1. Express the decimal 0.04 as a percent.

- a) 400%
- b) 40%
- c) 4%
- d) 0.4%
- e) 0.04%

2. Fred is 180 cm tall; Ellen is 160 cm tall. Express Fred's height to Ellen's height as a reduced ratio.

- a) 180 to 160
- b) 18 to 16
- c) 9 to 8
- d) 8 to 9
- e) 16 to 18

3. In Mr. Smith's Grade 7 Math class, the results of the last ratio test were as follows:

John	11 out of 15
Peter	15 out of 21
Mary	28 out of 40

Put the scores in order from best to worst.

- a) John      Mary      Peter
- b) Mary      John      Peter
- c) Peter      John      Mary
- d) John      Peter      Mary
- e) Peter      Mary      John



4. Solve:

$$(-7) - (-6) \times (7 - 4)$$

- a) -3
- b) -11
- c) +11
- d) +3
- e) -39

5. Place the following from smallest to largest.

33      33%      0.333       $\frac{3}{8}$

- a) 33      0.333      33       $\frac{3}{8}$
- b) 33%      0.333       $\frac{3}{8}$       33
- c) 0.333       $\frac{3}{8}$       33      33%
- d)  $\frac{3}{8}$       33%      0.333      33
- e)  $\frac{3}{8}$       33      33%      0.333

6. Jill had \$200 in the Bank of Canada. She was paid 7% interest for one year. What was the total in her account at the end of the year?

- a) \$14.00
- b) \$140.00
- c) \$200.00
- d) \$214.00
- e) \$340.00

(18)

7. The map scale is 1 cm : 100 km. The distance between Montreal and Ottawa on the map is 2.4 cm. How far in kilometres is it between the two cities?

- a) 2.4 km
- b) 10 km
- c) 24 km
- d) 100 km
- e) 240 km

8. Use a proportion to solve.

7 frisbees cost \$22.47.  
How much do 4 frisbees cost?

- a) \$3.21
- b) \$19.26
- c) \$25.69
- d) \$12.84
- e) \$9.63

9. There are 55 players on a football team. Forty percent live in Greenfield Park. How many players live in Greenfield Park?

- a) 18
- b) 22
- c) 33
- d) 40
- e) 55

10. Express 639 000 000 in scientific notation.

- a)  $639 \times 10^6$
- b)  $639 \times 10^8$
- c)  $6.39 \times 10^6$
- d)  $6.39 \times 10^8$
- e)  $6.39 \times 10^{-6}$

11. Solve:

$$\frac{1}{3} + \frac{3}{4} \div \frac{1}{2}$$

- a)  $1\frac{5}{6}$
- b)  $2\frac{1}{6}$
- c)  $\frac{13}{24}$
- d)  $\frac{3}{14}$
- e)  $\frac{6}{7}$

12.  $\frac{5}{8}$  of the 40 students in Ecology class took their ecosystem jars home.

How many took them home?

- a) 64
- b) 20
- c) 32
- d) 25
- e) 40

13. Complete the factor tree for 100.

What is the sum of the prime numbers?

- a) 14
- b) 29
- c) 52
- d) 89
- e) 100

14. What pairs of ratios are equivalent to 16:20?

- a) 20:16 and 4:5
- b) 48:60 and 8:10
- c) 4:5 and 10:15
- d) 32:50 and 48:60
- e) 4:5 and 32:50

15. Reduce to lowest terms:  $\frac{57}{133}$

- a)  $\frac{19}{44}$
- b)  $\frac{5}{13}$
- c)  $\frac{6}{13}$
- d)  $\frac{8}{19}$
- e)  $\frac{3}{7}$

Answer Key

1.	2.	3.	4.	5.
6.	7.	8.	9.	10.
11.	12.	13.	14.	15.

3. Simplify:

2	1	0
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$$\left(1 - \frac{3}{4}\right)^2 + \frac{2}{3} \div \frac{1}{9} \times \frac{7}{8}$$

Answer: \_\_\_\_\_

4. George's weekend hobby is building model cars. The actual length of his model Mustang is 0.72 m. Georges needs to draw a diagram of his car for a school project. What is the length of his drawing if the scale is 1cm:4cm?

2	1	0
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Answer: \_\_\_\_\_

5. Which is the better value?

(22)

- a) 6 kg of flour for \$8.70
- b) 9 kg of flour for \$12.60

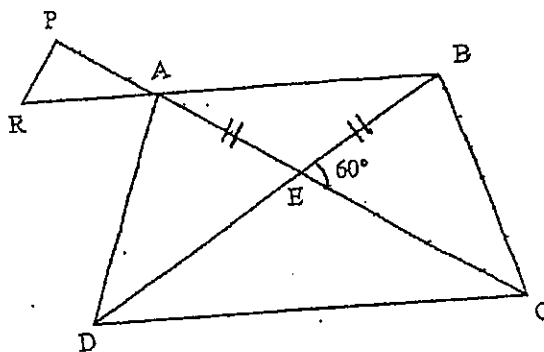
Calculate the unit rate for each using proportions.

1 0

Answer: \_\_\_\_\_

6. In the figure on the right,

- $m \overline{AE} = m \overline{BE}$ .
- Angle BEC is  $60^\circ$ .
- Angles PAC and RAB are straight angles.

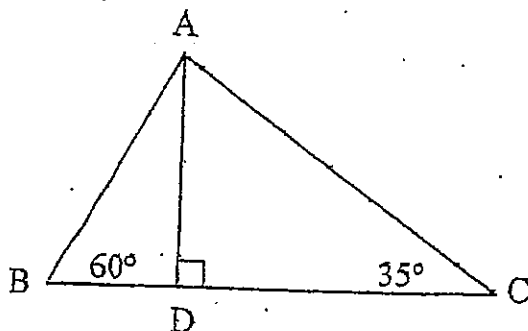


What is the measure of angle RAP?

Give a reason (in words) for each step or calculation.

Explanation and Calculations:

7. In triangle ABC, AD is perpendicular to BC.



- a) What is the measure of angle DAC?

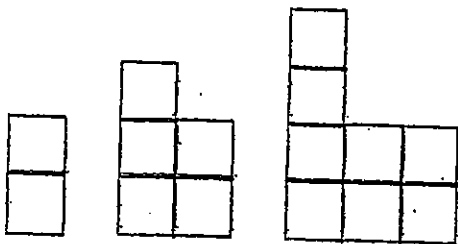
3	2	1	0
---	---	---	---

Answer: \_\_\_\_\_

- b) What is the measure of angle DAB?

Answer: \_\_\_\_\_

8.



How many squares will appear in the 10<sup>th</sup> term of this sequence?

Create the rule and solve.

2	1	0
---	---	---

9. A sample group of students were asked which fruit they preferred among the following four: orange, pear, apple and peach. Here are the survey results:

1 student out of 4 prefers oranges.

$\frac{7}{20}$  of the students prefer pears.

30% of the students prefer apples.

The other students prefer peaches

1 0

According to these results, what is the preferred fruit of these students?

Answer: : \_\_\_\_\_

10. If the passing mark is 60%, which test (or tests) did Susan NOT pass?

- 55 on 85 on her History test
- 40 on 65 on her French test
- 50 on 90 on her English test

2 1 0

Answer: : \_\_\_\_\_



A core class decided to do a fundraiser. they

collected plastic bottles and cans

Each item collected was worth

5 cents (1 nickel)



25

The class collected a total of 146 cans and 220 bottles.

A- How much money was collected altogether?

Work

B- Calculate 25 % of the total items collected.

Work

C- What is two fifths of all the bottles?

Work

26

## 2. Writing an Order Form From a Menu

Joe's Menu			
Sandwiches	Soup	Dessert	Beverages
Swiss Cheese 1.89	cup 1.00	Pie 1.75	soda small 0.95
Ham 2.10	bowl 1.75	Ice Cream 1.10	large 1.45
Hamburger 1.50		Cake 2.25	tea 0.85
Cheeseburger 1.80		Fruit 1.00	coffee 1.00
			milk 1.10

Fill in the order form for 3 customers. One person orders a cup of soup, a cheese sandwich and a large soda. The other two customers both order a hamburger, a large soda and a piece of cake.

### Question

A- How much will it cost for all 3 customers to eat if the GST is 7 % and the PST is 7.5 %.

B- Calculate a 15 % tip (use the subtotal).

Joe's

Work

# Order Form

Subtotal

GST

PST

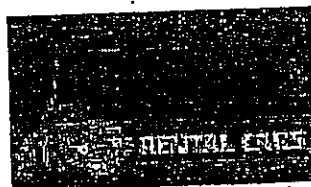
Tip

Grand Total

You want to rent a car for a short 7-day trip. If you plan to travel 1800 km over the course of this trip, which rental company offers the better deal?



## CAR RENTAL



### COMPANY A

\$12 a day  
and  
8¢ per kilometre

### COMPANY B

\$14 a day  
and  
5¢ per kilometre

5. John sold magazines at the Bell Center. Here are his sales for the last 3 hockey games.

28

Monday.....\$ 600

Thursday.....\$ 450

Saturday.....\$ 950

John earns \$ 50 per game.

He also earns a 20% commission on his sales.

A- How much did he earn on Monday ?

Work A

B- What were his total earnings for 3 days ?

Work B

(20 marks) ANSWER ALL QUESTIONS ON THE ANSWER SHEET.

What is the result of  $\frac{8 + (20 - 4) \times 7}{36 + 4}$  ?

- A) 4.2
- B) 3
- C) 120
- D) 40

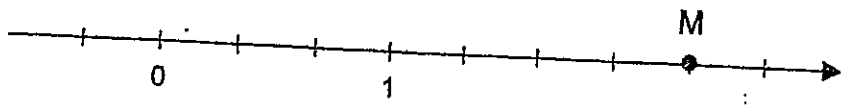
Record temperatures are shown below for various parts of Canada.

PROVINCE OR TERRITORY	LOW (°C)	HIGH (°C)
Prince Edward Island -	-37	37
Newfoundland	-49	42
Nova Scotia	-41	38
New Brunswick	-47	39
Quebec	-54	40
Ontario	-58	42
Manitoba	-53	44
Saskatchewan	-57	45
Alberta	-61	43
British Columbia	-59	44
Yukon	-63	35
Northwest Territories	-57	39

a) What is the lowest temperature on record?

b) What is the highest temperature on record?

3 Determine the position of point M on the axis below.

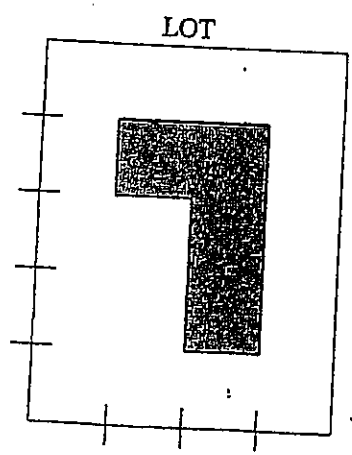


M = \_\_\_\_\_

4 Which of the following statements is true?

- A)  $-24 + -63 = 87$
- B)  $-18 + 98 = -116$
- C)  $(-9)^2 \div 3^3 = -9$
- D)  $5^2 \times (-3)^2 = 225$

5 The shaded area represents a house on a lot. What percent of the lot area does the house occupy?



- A) 15 %
- B) 20 %
- C) 25 %
- D) 30 %

31

Which of the following statements is true?

- A)  $\frac{2}{3} > \frac{2}{5}$
- B)  $\frac{3}{5} > \frac{7}{10}$
- C)  $\frac{4}{5} < \frac{20}{25}$
- D)  $\frac{9}{5} < \frac{5}{4}$

Simon, Maria, Philip and Chloe realized that this was the 24<sup>th</sup> time they had skied together. While on the ski-lift, they amused themselves by trying to express the number 24 in different ways. Which one of them was correct?

- A) Simon says :  $2 + 8 \times 2 + 4$
- B) Maria says :  $18 + (-2) - 8 \times 3$
- C) Philip says :  $3 \times 6 + 12 \div 2$
- D) Chloe says :  $(12 - 4) + 4 \times 2$

8 In which of the following can the  $\square$  be replaced by an equal sign (=)?

- A)  $1^2 \square 1^3$
- B)  $2^8 \square 8^2$
- C)  $3^2 \square 2^3$
- D)  $5^0 \square 5^1$

2  
2  
10  
16  
2.4  
2.2  
2

**PART B: (30 marks)** Answer all questions in the space provided.  
**SHOW YOUR WORK.**

- ☐ After the mathematics contest, your teacher thought he would try writing the results of the students in different ways. You are responsible for posting the rankings of the students. Complete the table below by writing the names of the students in decreasing order of their results.

Here are the results :

SHOW ALL YOUR WORK HERE

Monica answered 144 questions out of 200 correctly.

Jonathan was successful in  $\frac{4}{5}$  of the contest.

Frederick incorrectly answered  $\frac{6}{24}$  of the questions.

Valerie was successful in 0.725 of the contest.

Paul's final mark was  $\frac{39}{50}$ .

Maria incorrectly answered 24 % of the questions.

MATH CONTEST	
PLACE	NAME
1 <sup>st</sup>	(best score)
2 <sup>nd</sup>	
3 <sup>rd</sup>	
4 <sup>th</sup>	
5 <sup>th</sup>	
6 <sup>th</sup>	



Last January, Julie kept a record of the outdoor temperature taken at the same time each day for five days and gave it to her Ecology teacher.

Here are her results :

DAY OF THE WEEK	TEMPERATURE (in °C)
Monday	-5
Tuesday	-2
Wednesday	0
Thursday	3
Friday	-1

a) Write a chain of operations that can be used to calculate the average temperature for these 5 days. (**Do not** answer the question).

b) What was the average (mean) temperature for the week?

3] Given this sequence of numbers : 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25.

a) Circle the prime numbers in the line above.

b) What fraction of these numbers are prime numbers?

34

4

A chameleon is able to stretch its tongue to one and a half times the length of its body in order to catch the insects it feeds on.

a) How far can a 46 cm chameleon stretch its tongue to catch an insect?

b) Express your answer in **millimètres**.

5

To solve the following problem, use a proportion.

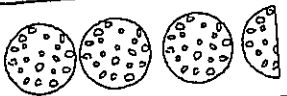
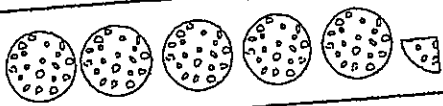
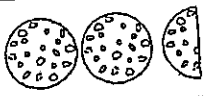
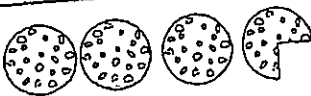
At a Centennial bake sale, for every 7 brownies the students sold they sold 2 chocolate chip cookies. If the students sold 28 brownies, how many chocolate chip cookies were sold?


34

35

A survey was conducted among some teenagers to determine which kind of pizza they liked best.

Here are the results :

THE MOST POPULAR PIZZAS AMONG TEENAGERS	
KIND	Frequency
Cheese	
Pepperoni	
Hamburger	
All dressed	

 = 20 teenagers

- What was the total number of students surveyed?
- What fraction of students preferred all dressed pizza?
- What percentage of teenagers prefer all-dressed pizza?

36

- 7 Three friends meet in a restaurant. Rachel says, "I come here every 8 days". Eric says, "I come every 12 days". Tania then says, "I come every 18 days".

In how many days will they meet again?

Show your work

Work

Result: They'll meet again in \_\_\_\_\_ days.

8 Alex paid only  $82\frac{1}{2}\%$  of the regular price for a DVD player selling regularly for \$258.50.

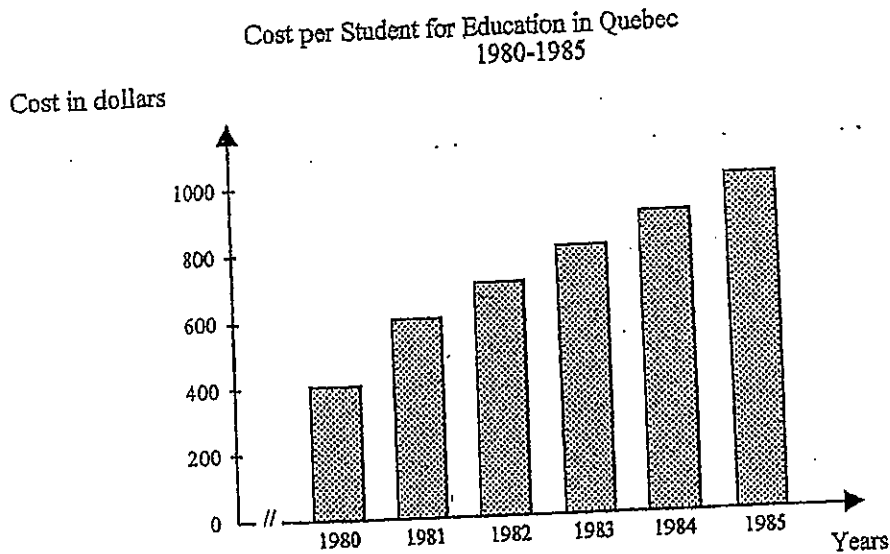
a) Express the percent in decimal form.

b) How much did Alex pay for the DVD player?

c) How much did Alex save?

36

Examine the following graph and answer the questions below.



What was the cost per student for education in 1982?

b) The cost per student in 1980 represents what fraction of the cost in 1985?

c) State the fraction in lowest terms.

38

0 The students in Michael's class were polled to find out what their favorite sports were.

All of their answers are listed below :

Hockey	Hockey	Baseball	Soccer
Hockey	Baseball	Football	Hockey
Football	Hockey	Baseball	Hockey
Hockey	Hockey	Hockey	Baseball
Hockey	Hockey	Baseball	Hockey
Football	Baseball	Football	Soccer
Football	Soccer	Baseball	Football

Fill in the tally chart below

Sports Preferred by Michael's Classmates		



38

39

her asked two students to calculate their final mark on their mathematics examination.  
The number of marks given for each correct answer is shown below..

TYPE OF QUESTION	MARKS
A- Questions with all work shown	5 marks
B- Short-answer questions	3 marks
C- Multiple-choice questions	2 marks

The table below shows the number of correct answers the two students obtained for each type of question.

	Number of correct answers for each type of question		
	A	B	C
Susan	8	5	11
Alice	6	7	12

Which student, Susan or Alice, received the higher mark?

Show work to justify your answer.

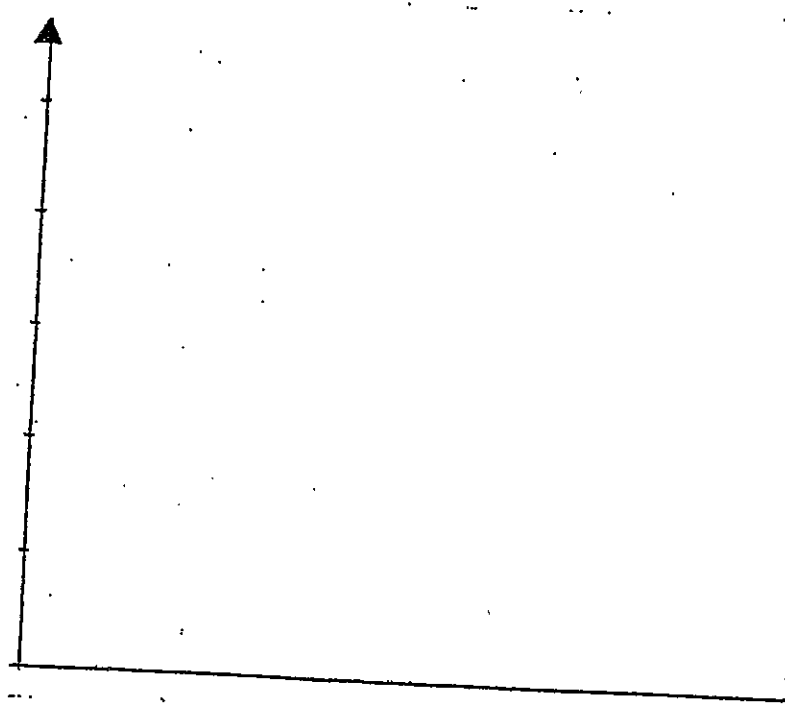
Result \_\_\_\_\_ received the higher mark.

40

3] Students of the 4 high schools were asked where they usually ate lunch. Their answers were listed below.

- 2500 students ate a meal cooked in the cafeteria
- 800 students ate at home.
- 2000 students brought their lunch and ate in the student lounge.
- 600 students ate at a nearby restaurant.

Draw a vertical bar graph to illustrate these findings.



f2



A scale model of a building was built by a group of students using a scale of 1 : 40.

The model has a width of 0.5 metres.

- a) What is the width of the actual building ?

The width of the building is \_\_\_\_\_ metres.

- b) Express the ratio 1 : 40 as a

\* Fraction:

\* Decimal:

\* Percent:

42

- 5] Julia is searching for dinosaur bones in Nova Scotia, Canada and finds 93 prosauropod bones. She knows that a complete prosauropod skeleton has 465 bones.

a) What percent of the skeleton's bones has she found ?

Work:

Julia has found \_\_\_\_\_ % of the prosauropod bones.

- b) A few days later, Julia spots more prosauropod bones and starts digging. When she is finished, she now has a total of 186 bones.

What percent of the bones is still missing ?

Work:

\_\_\_\_\_ % of the bones are still missing.

- c) Julia discovered 60 % of a Tyrannosaurus rex in South Dakota, USA. If a complete T. rex has 320 bones, then how many bones has Julia discovered ?

Work:

Julia has discovered \_\_\_\_\_ bones.

44

# SEC. 1 REVIEW BOOKLET ANSWERS

p. 1,2,3: 1)C 2)B 3)D 4)D 5)C 6)C 7)B 8)D 9)D 10)C ✓

p. 4,5,6,7: 1)5 2) a)  $-5^{\circ}\text{C}$  b) wed/thurs/fri 3)  $3/2$ ,  $7/8$ , .87, 70% ✓

4) ~~1/2~~  $\frac{29}{40}$  5) a) 16/21 b) 12 6) a) 16&19 b)  $3x+1$  c) 121 7) 8, -3 ✓

8) 2002 9) CDB 10) supplementary,  $145^{\circ}$ ,  $35^{\circ}$  ✓

p. 9,10,11,12,13,14,15: 1) 594 apples 2) 180 min, 3hrs, 10:15 AM ✓

3) 350g potato chips, 4.666L of cola, 7 goodie bags, 21 pizzas ✓ 4) 3200\$, 13,000\$ ✓

5)  $14.8^{\circ}\text{C}$  6) Wayne 1.07\$/L 7)  $\angle\text{FEG } 50^{\circ}$   $\angle\text{AEB } 50^{\circ}$   $\angle\text{EAB/}$   $\angle\text{EBA } 65^{\circ}$   $\angle\text{EBC } 115^{\circ}$  ✓

p. 16,17,18,19,20: 1)C 2)C 3)D 4)C 5)B 6)D 7)E 8)D 9)B ✓

10) D 11)A 12)D 13)A 14)B 15)E

p. 21,22,23: 3)  $5\frac{5}{6}$  4) 18cm 5)b) 6)  $\angle\text{RAP } 30^{\circ}$  7)  $\angle\text{DAC } 55^{\circ}$   $\angle\text{DAB } 30^{\circ}$

8) 29 squares (9) Pears (10) English

p. 25: a) 18.30\$ b) 91.5 items c) 88

p. 26: 14.74\$

GST: 1.03\$

PST: 1.18\$

TIP: 2.21\$

= 19.16\$

p. 27: company (B)

p. 28: 5) a) 170\$ b) 550\$

p. 29: Top b) TABLE: a) Yukon b) Sask.

p. 30: 3)  $2\frac{1}{3}$  4)D 5)B

p.31: 1<sup>st</sup> QUEST: A 2<sup>nd</sup> QUEST: C 8) A

p. 32: (<sup>1st</sup>) Jon, Paul, Maria, Fred, Val, Monica(Last)

p. 33: TOP a) (  $-5 + -2 + 0 + 3 + -1$  )

*5 days*

b)  $-1^0$  C

3) a) 5,7,11,13,17,19,23

b) 7/11

p. 34: 4) a) 69cm      b) 690 mm      5) 8 cookies

p. 35: a) 300 students      b)  $\frac{1}{4}$       c) 25%

p. 36: 7) 72 days      8) a) .825      b) 213.26\$      c) 45.24\$

p. 37: a) 700\$      b) 400/1000      c)  $\frac{2}{5}$

p. 38: HOCKEY=12      FOOTBALL=6      SOCCER=3      BASEBALL=7

p. 39: Susan(77pts)

p. 40: (varia)

p. 41: a) 20m      b)  $\frac{1}{4}$       .025      2.5%

p. 42: a) 20%      b) 60% missing      c) 192 bones