

Grade 8

Math

Homework

Test Prep

Packet #1

Student's Name

Parent's / Guardian's Signature

Test –Taking Strategies for Students

Multiple Choice Questions

- Read all directions carefully.
- Underline important words or phrases.
- Cross out answer choices you know are wrong
- Do not spend too much time on any question.
If a question is difficult, skip it and go back to it later.
- Be careful to mark each answer in the right place.
- If you want to change your answer, mark a X over the incorrect answer and then fill in the correct answer.
- Be sure to have an answer for each question.

Extended Response Items

- Read each question carefully and think about the answer before writing your response.
- Be sure to answer the question being asked.
- Be sure to write your answer on the line.
- Use pictures or diagrams to help you solve a problem.
- Use numbers and words when asked to explain your answer.
- Use your protractor or ruler if required to answer a question.
- Use your calculator to help you solve the problems.
(Grade 7 & 8 only)
- Keep your paper neat and organized.
- Be sure to show your work when asked, you may receive partial credit.

Name _____
Grade 8

Date: _____
Review Packet #1

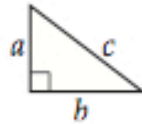


This picture means that you will use your ruler.

Mathematics Reference Sheet

FORMULAS

Pythagorean Theorem



$$c^2 = a^2 + b^2$$

Simple Interest

$$I = prt$$

Distance Formula

$$d = rt$$

CONVERSIONS

Temperature Conversions

$$F = \frac{9}{5}C + 32$$

$$C = \frac{5}{9}(F - 32)$$

Measurement Conversions

$$1 \text{ mile} = 5,280 \text{ feet}$$

$$1 \text{ yard} = 3 \text{ feet}$$

Read each question carefully and think about the answer before choosing your response.

1. Jill joined a book club. She received 5 free books when she joined. The table below shows the total number of books(n) she had received each month(y) since joining the club.

Jill's Books

Month (y)	Total Number of Books (n)
0	5
1	9
2	13
3	17
4	21

Which equation can be used to find the total number of books(n) Jill will have from the book club after y months?

- A** $n = 5y$
- B** $n = 4y$
- C** $n = 5y + 4$
- D** $n = 4y + 5$
2. Diane is 3 years older than twice her sister Samantha's age. If Samantha's age is represented by s , which expression represents Diane's age?
- A** $2s + 3$
- B** $s - 3$
- C** $3s + 2$
- D** $s + 3$
3. Lashika wants to save at least \$129.00 to purchase an MP3 Player. She received \$60.00 for her birthday and will earn \$12.00 per week babysitting. Which inequality represents how long it will take her to save enough money to purchase her MP3 Player when n represents the number of weeks?
- A** $12n + 60 \leq 129$
- B** $12n + 60 \geq 129$
- C** $60n + 12 \leq 129$
- D** $60n + 12 \geq 129$

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Read each question carefully and think about the answer before writing your response. Be sure to show your work when asked.

4. Mrs. Foley ordered the types of cupcakes below for a birthday party.

- 7 chocolate cupcakes for \$5.25
- 8 lemon cupcakes for \$4.80
- 9 vanilla cupcakes for \$4.95

What type of cupcake costs the least?

Show your work.

Answer _____

5. Talia bought a sweater for \$18 U.S. dollars. What is the cost of the sweater in Canadian dollars? Use the conversion formula below.

1 U.S. dollar = 1.03 Canadian dollars

Show your work.

Answer _____ **Canadian dollars**

Talia would like to buy a scarf for 8 U.S. dollars. She has 9 Canadian dollars remaining after buying the sweater. On the lines below, determine whether Talia has enough money to buy the scarf. Explain how you determined your answer.
