

Grade 8

Math

Homework

Test Prep

Packet #4

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 _____
Test Prep Packet #4

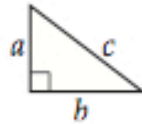


This picture means that you will use your ruler.

Mathematics Reference Sheet

FORMULAS

Pythagorean Theorem



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

Simple Interest

$$I = prt$$

Distance Formula

$$d = rt$$

CONVERSIONS

Temperature Conversions

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

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

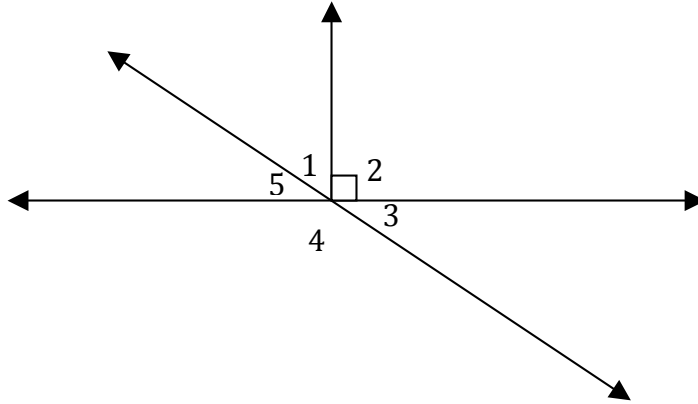
Measurement Conversions

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

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

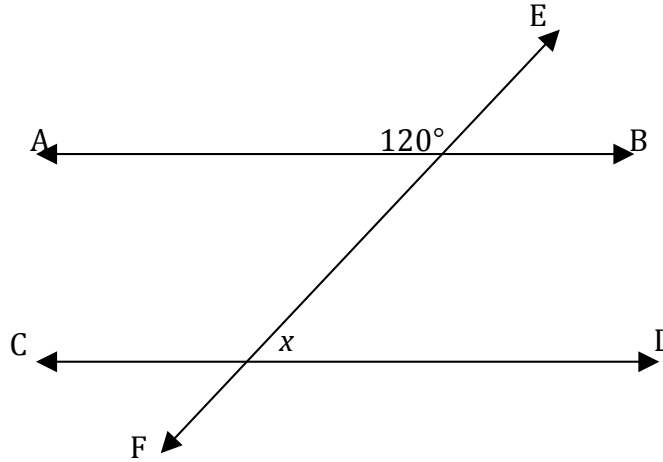
Read each question carefully and think about the answer before choosing your response.

1. In the diagram below, which angles are supplementary?



- A $\angle 4$ and $\angle 5$
 - B $\angle 1$ and $\angle 2$
 - C $\angle 1$ and $\angle 3$
 - D $\angle 1$ and $\angle 5$
2. What is the most simplified form of the expression $2x(x + 5) - 4x$?
- A $3x$
 - B $6x$
 - C $2x^2 + 6x$
 - D $2x^2 - 6x$

3. In the diagram below, $\overleftrightarrow{AB} \parallel \overleftrightarrow{CD}$, and \overleftrightarrow{EF} intersects both of them.



What is the measure of $\angle x$?

- A 60°
- B 90°
- C 120°
- D 180°

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

4. Jeremy raised \$250 for charity last year. This year he raised 20% more than he raised last year. How much money did Jeremy raise this year?

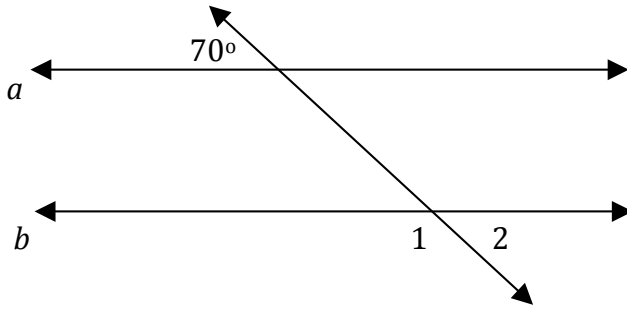
Show your work.

Answer _____

Name _____
Grade 8

Date _____
Test Prep Packet #4

5. In the diagram below, line $a \parallel$ line b .



[not drawn to scale]

Part A

What is the measure, in degrees of $\angle 1$?

Answer _____ degrees

On the lines below, explain how you determined the measure of $\angle 1$.

Part B

What is the measure, in degrees, of $\angle 2$?

Answer _____ degrees

On the lines below, explain how you determined the measure of $\angle 2$.
