

Name: John Smith

Date: 8/25/2025

Algebra I Work Practice
Grade 9
Problem Set #6

1. Distribute to expand into a sum.

$$(x + 1)(x - 1) = x^2 - \cancel{1x} + \cancel{1x} - 1 = x^2 - 1$$

$$(x + 2)(x - 2) = x^2 - \cancel{2x} + \cancel{2x} - 4 = x^2 - 4$$

$$(x + 3)(x - 3) = x^2 - \cancel{3x} + \cancel{3x} - 9 = x^2 - 9$$

$$(x + 4)(x - 4) = x^2 - \cancel{4x} + \cancel{4x} - 16 = x^2 - 16$$

$$(x + 5)(x - 5) = x^2 - \cancel{5x} + \cancel{5x} - 25 = x^2 - 25$$

$$(x + 6)(x - 6) = x^2 - 36$$

$$(x + 7)(x - 7) = x^2 - 49$$

$$(x + 8)(x - 8) = x^2 - 64$$

$$(x + 10)(x - 10) = x^2 - 100$$

John Smith
Algebra 1
9th Grade

Unit 3 Test A
Algebra I

100% 😊
😊 Excellent!

Name John Smith

Solve each equation for the specified variable.

1. $3x + 7 = 22$

$$3x = 15$$

$$x = 5$$

2. $\frac{x}{4} - 3 = 8$

$$\frac{x}{4} = 11$$

$$x = 44$$

3. $5x = -15$

$$x = \frac{-15}{5}$$

$$x = -3$$

① $x = 5$

4. $2(x - 5) = 8$

$$2x - 10 = 8$$

$$2x = 18$$

$$x = 9$$

5. $4 - 2x = -10$

$$-2x = -14$$

$$x = 7$$

6. $3x + 11 = 2$

$$3x = -9$$

$$x = -3$$

③ $x = 7$

7. $\frac{x}{3} + 6 = 10$

$$\frac{x}{3} = 4$$

$$x = 12$$

8. $\frac{x+2}{2} = -5$

$$x + 2 = -10$$

$$x = -12$$



⑥ $x = -3$

Solve the equation or formula for the specified variable.

9. $A = lw$
solve for l

$$A = lw$$

$$l = \frac{A}{w}$$

10. $P = 2L + 2W$
solve for W

$$P = 2L + 2W$$

$$P - 2L = 2W$$

$$\frac{P - 2L}{2} = W$$

⑩ $W = \frac{P - 2L}{2}$

11. $d = rt$
solve for r

$$d = rt$$

$$r = \frac{d}{t}$$

12. $I = Prt$
solve for t

$$I = Prt$$

$$t = \frac{I}{Pr}$$



⑫ $t = \frac{I}{Pr}$

John Smith
Algebra 1
9th Grade

Algebra I
 Unit 3 Test A

Name John Smith

For #1 - 2, answer the question. (1 pt.)

1. Is $(0, 4)$ a solution to $y = -3x + 4$?

$$4 = -3(0) + 4$$

$$4 = 4$$

1. yes

2. Is $(2, -1)$ a solution to $3x - 4y = 11$?

$$3(2) - 4(-1) = 11$$

$$10 - -4 = 11$$

2. NO

For #3 - 4, find the x- and y-intercepts. (2 pts.)

3. $4x - 2y = 12$

4. $2y = -5x + 10$

3. x-int $(3, 0)$

$$4x - 2(0) = 12$$

$$2(0) = -5x + 10$$

$$2y = -5(0) + 10$$

y-int. $(0, -6)$

$$4x = 12$$

$$0 = -5x + 10$$

$$2y = 10$$

$$x = 3$$

$$-10 = -5x$$

$$y = 5$$

4. x-int. $(2, 0)$

x-int $(3, 0)$

$$x = 2$$

$$(0, 5)$$

y-int. $(0, 5)$

$$(2, 0)$$

For #5 - 8, find the slope between each set of points. (1 pt.)

5. $(4, 5)$ and $(2, 5)$

6. $(7, -4)$ and $(-2, 4)$

5. 0

$$\frac{5-5}{2-4} = \frac{0}{-2}$$

$$\frac{4- -4}{-2-7} = \frac{8}{-9}$$

6. $-8/9$

$$0$$

$$-\frac{8}{9}$$

7. $(-5, -2)$ and $(-3, -4)$

8. $(6, 7)$ and $(6, -1)$

7. -1

$$\frac{-4- -2}{-3- -5} = \frac{-2}{2}$$

$$\frac{-1-7}{6-6} = \frac{-8}{0}$$

8. -8

$$-1$$

$$-8$$

Jill Smith
English 2
10th grade

Name: Jill Smith Grade: 10 English II Date: 2/20/2025

Part 5: Paragraph Writing

Describe a peaceful place (real or imagined).

Requirements:

- 5 sentences - 1 strong verb - 2 adjectives - 1 -ly adverb - 1 simile

Beautiful Good Work

The serene forest floor cradles a hidden clearing, sunlight filters through the lush green canopy, dappling the messy ground. A gentle breeze whispers through the leaves, carrying the faint scent of pine. The air is still and quiet like a held breath. Here one can truly unwind and find solace.

Latin Practice Translate and analyze the structure of the following Latin sentences.

1. Puella aquam portat.

English Translation: -The girl carries water.

Subject: puella Verb: portat Object: aquam

2. Agricola terram amat.

English Translation: -The farmer loves the land.

Subject: Agricola Verb: amat Object: terram

3. Nautae in mari navigant.

English Translation: -The sailors sail on the sea.

Subject: Nautae Verb: navigant Object: mari

4. Magister discipulos docet.

English Translation: -the teacher teaches the students

Subject: Magister Verb: docet Object: discipulos

Jill Smith
English 2
10th grade

Name: Jill Smith Grade: 10 English II Date: 3/24/2025

English Review/Classical & IEW



Part 1: Vocabulary in Context

Beautiful Good Work

The old barn stood in dilapidated silence, its beams warped and its paint peeling. Yet, despite its decrepit appearance, there was something nostalgic about it, something that stirred memories of laughter and hard work. To some, it was merely a structure; to others, it was a relic of a life once lived with purpose.

Dilapidated: falling apart or ruined from age or neglect

Decrepit: worn out or ruined because of age

Nostalgic: ~~was~~ feeling a sentimental longing for the past

Relic: an object surviving from an earlier time

Part 2: Sentence Imitation (strategy, structure, style)

Directions: Rewrite each sentence using the same structure but your own words.

Example:

Original: The wind whispered through the trees, carrying secrets of the past.

Your Version: The snow fell onto the meadow, covering the grass in layers of white.

The sun dipped below the horizon, painting the sky in hues of gold.

She walked into the room with confidence, her presence commanding attention.

The storm raged outside, shaking the windows and rattling the doors.

The dog barked in the yard, chasing the squirrels and scaring the birds.

Jill Smith
English 2
10th grade

Name: Jill Smith Grade: 10 English II Date: 5/8/2025

Part 3: Grammar & Structure

Label parts of speech:

The weary traveler slowly climbed the steep mountain.

Nice job!

The: article weary: Adjective traveler: Noun slowly: Adverb
climbed: Verb the: Article steep: Adjective mountain: Noun

Fix the sentences:

running down the road the dog barked loudly

Running down the road the dog barked loudly,

she dont know where he went

She doesn't know where he went,

Part 4: Sentence Diagramming

Diagram the following sentences (subject | verb | modifiers):

1. The dog barked loudly.

Subject: dog Verb: barked Modifier: loudly

2. The weary traveler climbed the mountain slowly.

Subject: traveler Verb: climbed Object: mountain Modifiers:
the weary the slowly

Ethan Johnson
Offline PE
10th grade

PE Work Sample:
1. Hiking



2. Running/Track



3. Biking



Ethan Johnson
Offline PE
10th grade

1. Acrylic Paint



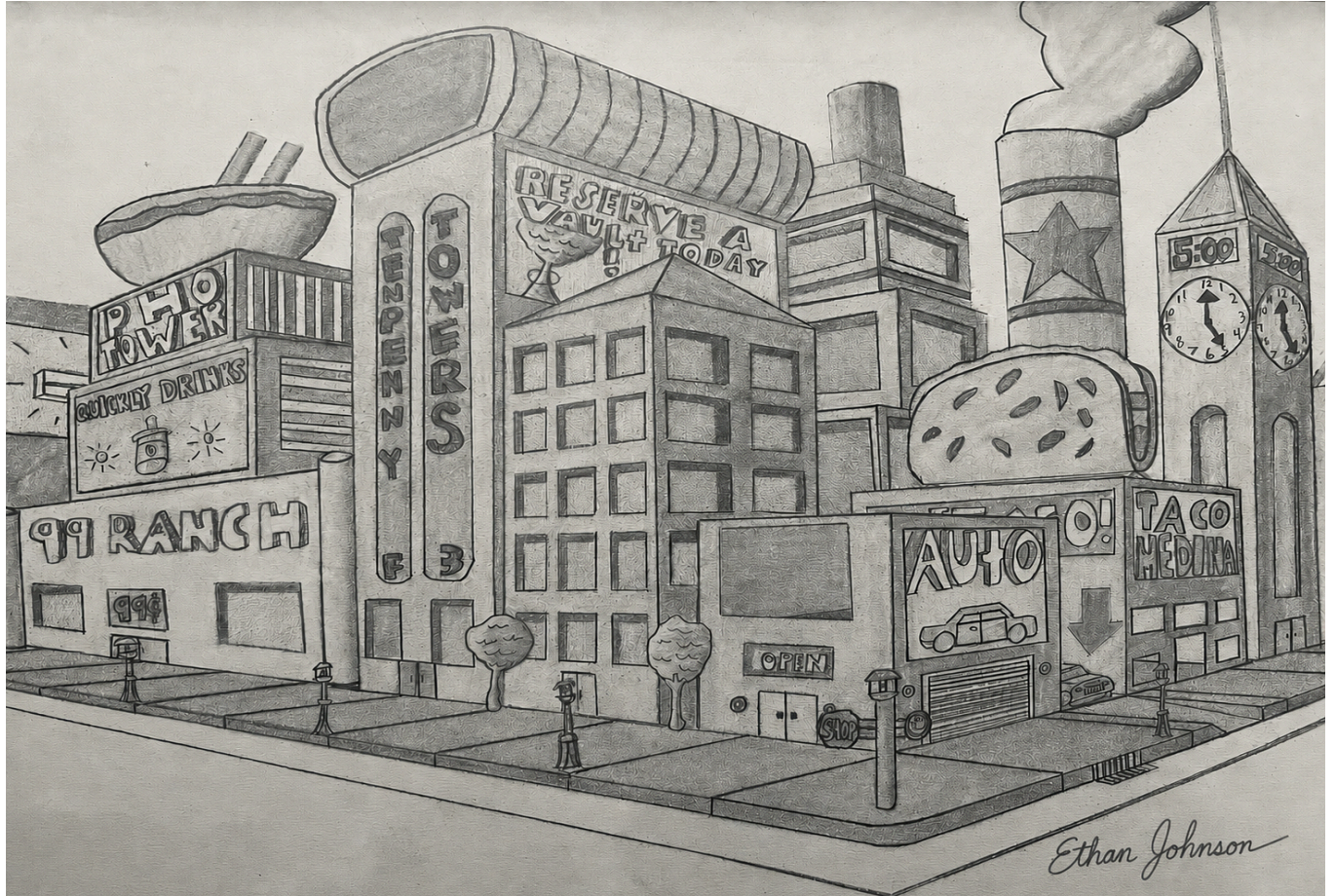
Ethan Johnson
Offline PE
10th grade

2. Color Pencil



Ethan Johnson
Offline PE
10th grade

3. Pencil Drawing



Jane Johnson
Biology
10th grade

Name: Jane Johnson Grade: 10th grade Subject: Biology Test #1 Date: 9/23/25

92%

1. What subject matter is included in biology but not in the physical sciences?

- ☐ observations regarding chemistry
- C** ☒ **observations regarding life**
- ☐ observations regarding physical properties
- ☐ observations regarding atoms and molecules

2. Which word provides the best definition of the term teleology?

- X** ☒ **supernaturalism**
- ☐ superstition
- ☐ purpose
- ☐ complexity

3. The ancient Greeks considered this part of the Scientific Method to be beneath them_____.

- ☐ the hypothesis
- ☐ making observations
- ☐ stating the problem
- C** ☒ **performing experiments**

4. The scientific method consists of discovering _____.

- ☐ the lack of design in nature
- C** ☒ **consistent results by repeated observations**
- ☐ patterns of evolution
- ☐ making observations without confirming them by experiments

5. _____ believe that our world is the result of millions of years of adaptation.

- ☐ Creationists
- ☐ Faithful Catholics
- C** ☒ **Evolutionists**
- ☐ both a and b

6. The people of the _____ transformed the idea of cause and effect. They discovered that there was not only a pattern but also a plan in the mind of the Creator.

- ☐ Protestant Revolt
- ☐ Enlightenment
- X** ☒ **Renaissance**

Jane Johnson ☺

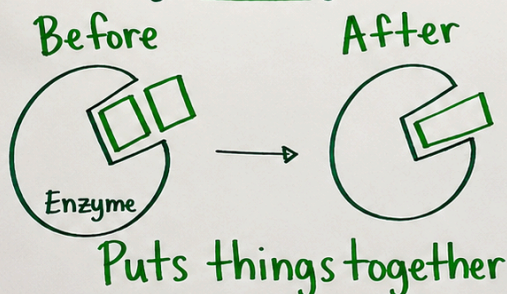
Enzymes

10/13/2025 (7)

enzyme: a protein that regulates and speeds up biological reactions by building or breaking molecules.

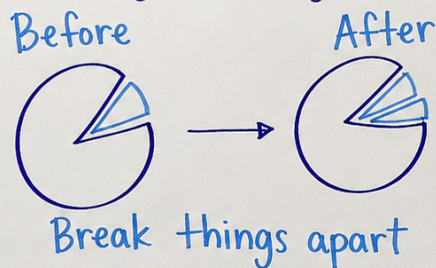
Type 1: Anabolic Enzymes

- work by building molecules



Type 2: Catabolic Enzymes

- work by breaking molecules



Conditions

HOT (100°C) ↑ enzyme DENATURES: changes shape, no longer works

↑ enzymes work better

↓ enzymes slowdown, cannot work well

COLD ↓

Temperature

0 - Acid ↑ enzyme denatures

↓ enzymes work better

7 - Neutral (like water) ↑

14 - Base ↓ enzyme denatures

pH

Jane Johnson
Biology
10th grade

SKELETAL SYSTEM

Name: Jane Johnson

Date: 10/17/2025

