

**Saint Anthony of Padua School**  
**Junior High Summer Packet**  
**SY: 2024-2025**

Dear Junior High Parents,

Congratulations to your children for finishing the 2024 - 2025 school year! It has been a joy teaching them and watching them grow these past ten months. We also welcome the incoming 6th graders to Junior High as they continue their journey here at St. Anthony of Padua!

Please review the Junior High Summer Projects , which are required assignments for each student. The completed work will be due on the first day of school and will count as the first grades for Reading, Language, Math, Science, Social Studies, and Religion.

The ***Junior High Supply List*** is also provided so that you can begin to purchase materials for the school year. Please note that all Junior High students will be required to use Chromebooks instead of iPads for school.

In August/September, we will review Junior High policies regarding the following topics (\*found in Parent/Student Handbook online):

- Homework/Classwork
- Conduct
- Uniforms
- Classroom procedures
- Rotations and schedules

We appreciate the support you continue to give to your child's education. Please feel free to email any of us with any questions or concerns. You can find our contact information on the Teacher Blogs at [stanthonygardena.org](http://stanthonygardena.org) .

Thank you and enjoy your summer!

*St. Anthony of Padua, pray for us!*

**Saint Anthony of Padua School**  
**8th Grade Summer Packet**  
**SY: 2024-2025**

Dear Parents and Students of the Class of 2025,

First, congratulations on finishing the 2023-2024 school year! I hope all of you enjoy your summer and come back in August refreshed, focused and prepared for the joys and challenges of 8th grade.

As you may know, part of the preparation for 8th grade English Language Arts is summer reading. Every student is required to read the book *The 7 Habits of Highly Effective Teens* by Sean Covey. The book's content is fitting for this age group, and we will use it throughout the school year to review good habits students should begin developing. Our discussions and analysis in August and early September will benefit students in doing their personal best not only inside the classroom, but outside as well.

To be completely prepared for the start of the school year, the students need to arrive at school with the following assignments:

- The 7 Habits for Highly Effective Teens (worksheet)
- Social Studies Current Events (2)
- Handwriting Book pp. 1- 40
- Math Packet
- Science Project
- Religion Mass Reflections (2)

*These will be the first graded assignments for the year, so please make sure that they are completed neatly and thoroughly.*

The students have been briefed on these requirements and understand how to provide thorough and detailed responses. There will be a comprehension test on the book when the students return in August.

Thank you for your time and support. The students will enjoy the reading and the analysis we do in class. The theme of the work is relevant and it is a great opportunity to prepare the students for the upcoming year.

Sincerely,

**Ms. Genesis Garcia**

JH Religion / Science / 8th Grade Homeroom

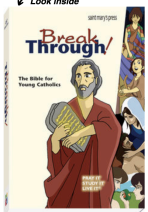

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**Saint Anthony of Padua School**

**Junior High Supply List**

**SY: 2024-2025**

Personal Supply List	Homeroom Community Supplies
<ul style="list-style-type: none"> <li>● Chromebook</li> <li>● Pencil pouch <b>only</b></li> <li>● Wood or mechanical pencil (pack of 12+ lead)</li> <li>● Erasers</li> <li>● Pens (Blue or Black + Red)</li> <li>● Highlighters (3)</li> <li>● Colored pencils (pack of 12)</li> <li>● White-out tape</li> <li>● Scissors</li> <li>● Whiteboard (9" x 12")</li> <li>● small white board eraser</li> <li>● Expo white board markers</li> <li>● headphones</li> <li>● Notecards</li> <li>● <a href="#">watercolor</a> paint palette</li> <li>● <a href="#">Personal Hygiene Kit</a> (may purchase or personalized)</li> <li>● 1 rosary with case / pouch</li> <li>● Emergency Kit                             <ul style="list-style-type: none"> <li>○ Large Ziplock Bag with 2-3 pint sized bottled and 2-23 non-perishable snacks.)</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>● 2 ream copy paper (white)</li> <li>● 1 ream colored paper (any color)</li> <li>● 3 pk clorox wipes</li> <li>● 3 pk hand wipes / baby wipes</li> <li>● 3 pk tissue box (kleenex)</li> <li>● Expo Whiteboard Markers</li> <li>● 1 liquid glue</li> </ul> <p align="center"><b>Homeroom / Classroom Wishlist</b></p> <ul style="list-style-type: none"> <li>● Blue painter's tape</li> <li>● Gallon Size Ziploc Bag</li> <li>● 8.5 x 11 white cardstock paper</li> <li>● 8.5 x 11 colored cardstock paper</li> <li>● 8.5 x 11 sticker paper</li> </ul>
Religion & Science	Math
<ul style="list-style-type: none"> <li>● Bible                             <ul style="list-style-type: none"> <li>○ <a href="https://www.smp.org/product/4141/Breakthrough/">https://www.smp.org/product/4141/Breakthrough/</a></li> </ul> </li> </ul>  <ul style="list-style-type: none"> <li>● 1 5-Star Flex 1 inch Hybrid Notebinder (blue)</li> </ul>  <ul style="list-style-type: none"> <li>● College Ruled Paper (100 count)</li> </ul>	<ul style="list-style-type: none"> <li>● 1 White Binder(s)</li> <li>● College Ruled Papers</li> </ul> <p align="center"><b>ELA &amp; History</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Novels (*available online at amazon.com)</li> <li>● <b>6th Grade:</b> <ul style="list-style-type: none"> <li>○ <i>Wonder</i> by R.J. Palacio (Summer Project)</li> </ul> </li> <li>● <b>7th Grade:</b> <ul style="list-style-type: none"> <li>○ <i>The Lion, the Witch, and the Wardrobe</i> by C.S. Lewis (Summer Reading in the Narnia book set)</li> </ul> </li> <li>● <b>8th Grade:</b> <ul style="list-style-type: none"> <li>○ <i>The 7 Habits of Highly Effective Teens</i> by Sean Covey (Summer Reading)</li> </ul> </li> <li><input type="checkbox"/> 1 Spiral 70-page Notebook (color - BLACK)</li> <li><input type="checkbox"/> 1½-inch 3-ring View Binder (color - BLACK)</li> <li><input type="checkbox"/> 5-tab Dividers for binder (any color)</li> </ul>

# 7 Habits of Highly Effective Teens

## Worksheet 1: Get in the Habit

Think about your habits

Four of my really great habits are:

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

The reason I keep these habits in my life is:

The good results I get from having each good habit are (e.g I have a habit of smiling at people I meet, and now people are friendlier to me)

Right now my worst habits are:

## 7 Habits of Highly Effective Teens

The reason I have these bad habits is:

I have had these bad habits for (days? weeks? years?)

The bad results i get for having these bad habits are (e.g I am late to school which means I miss my AIR and then get a lowered mark on my binder checks)

From my list of bad habits above, one I would like to change the most is:

## 7 Habits of Highly Effective Teens

Change the bad to good:

Bad Habits I want to change...	Good Habit I want to replace it with...
<p>In school:</p> <p>1.</p>  <p>2.</p>	<p>1.</p>  <p>2.</p>
<p>With my family</p> <p>1.</p>  <p>2.</p>	<p>1.</p>  <p>2.</p>
<p>With my Friends</p> <p>1.</p>  <p>2.</p>	<p>1.</p>  <p>2.</p>

# 7 Habits of Highly Effective Teens

## Worksheet 2: Paradigms and Principals

What are some paradigms from history that have been proven inaccurate or incomplete (e.g the world is flat)

What kind of impact did these inaccurate paradigms from history have on the world? (e.g people were scared to sail the oceans because they thought they would fall off the edge of the world)

Paradigm of Self:

A paradigm is the way you see something - your point of view, frame of reference. So a paradigm of self is how you see yourself. Positive self paradigms can bring out the best in you, while negative self-paradigms can limit you.

Some positive self paradigms I have about myself are:

If someone was going to name something after me, it would be:

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Some negative paradigms about myself are:

Paradigms that my parent/guardian, teacher or boss at work might say about me are:

Self Paradigm Assessment. Read the Paradigms of Self section on pages 13-16. Now evaluate how you see yourself by completing the true or false questions below

	TRUE	FALSE
I am someone who cares about others feelings		
I am good at school		
I am a kind person		
I am generally a happy person		
I am intelligent		
I am helpful		
I am a good athlete		
I am talented		
I am a go-getter		
I am a good member of my family		
I am a bad person		
I am lazy		



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	TRUE	FALSE
I am rarely happy		
I am not smart		
I am not good at anything		
I am not attractive		
I am not popular		
I am not a good friend		
I am not honest		
I am not reliable		

If you identified at least ONE negative self-paradigm complete the statement below:

One negative paradigm I would like to change is:

**Paradigm Builder:** To build a positive paradigm what do you do?

Spend time with someone who believes in me and recognizes my potential.

For me this person is:

Drop friends who tear me down or believe I am like them when I am not. Friends I may need to drop are:

Try to see things from other people point of view to shift the paradigm

A situation I need to see the other side of is:

## 7 Habits of Highly Effective Teens

### Worksheet 3: The Personal Bank Account

In the personal bank account chapter you learn that all change begins with "the man in the mirror." If you wanted to change the world begin with yourself, not your parents, not your boyfriend/girlfriend, or your teacher. All change begins with you.

Read the writings of Anglican bishop on page 33 of the book and then complete the statement below

If I could change something about the world, it would be:

One change I could make in myself that might help bring about that worldwide change is:

I think that an inside-out change could help other around me because:

## 7 Habits of Highly Effective Teens

How is your PBA?

Signs that your PBA is running low include these symptoms:

- You don't stand up for yourself when you know you're in the right
- You make degrading comments about yourself
- You always go along with what the crowd is doing or saying
- You overindulge in food, TV, internet or video games
- You use drugs or alcohol
- You aren't loyal to anyone or anything
- You allow others to use you

Signs that you have a positive PBA are:

- + You speak up when you know you are right
- + You have the self-confidence to let other know of your opinions and ideas
- + You are happy for other success
- + You have a good balance of school, physical activities, working on talents and personal time
- + You live by principles
- + If someone speaks badly of someone you know and care about, you have the courage to defend that person
- + You work to improve and build your skills and talents
- + You recognize life's natural ups and downs

Small Acts of Kindness:

Doing a small act of kindness is a great way of helping you feel better about yourself. Even though they are for someone else, they add up major deposits in your PBA

Read pages 35-37 in the book and complete the questions below

Three people in my life who could benefit from an act of kindness are:

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

## 7 Habits of Highly Effective Teens

Read the following story

"Why does it always take so long to get through the drive-thru at Tim Hortons" thought Rob as he sat in along line of cars waiting for his turn to pick up his morning coffee. The cars inched forward a little. Rob drummed his fingers on the dash. "Great" he thought, "I am going to be late for work, I never should have stopped for coffee this morning." Two more minutes passed and Rob's patience was gone. Suddenly the line in front of him disappeared - Rob couldn't believe his luck. As he pulled up to the window to pay for his coffee the server said handing him his coffee "no need to pay sir, the car 6 ahead of you paid for the next ten coffees" Rob smiled as he drove out onto the road.

How do you think Rob felt during the rest of his drive to work? How do you think the anonymous driver felt?

Someone who did any anonymous act of kindness toward me was:

The act of kindness was:

The act of kindness made me feel:

An anonymous act of kindness I could do for the three people I listed earlier is

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

## 7 Habits of Highly Effective Teens

### Worksheet 4: Habit One: Be Proactive

Proactive language give you back the control. You are free to choose who is control of what you say and do (YOU!)

So what is proactive behavior? Proactive behavior includes language such as:

- ★ I'm sorry I didn't mean that
- ★ I'll get right on that
- ★ I'm not really interested, but thank you
- ★ I am sure we can think of a third alternative
- ★ I can

But, reactive behavior includes language such as:

- ★ It's your fault
- ★ If only....
- ★ I just can't decide
- ★ That's not fair
- ★ That's just the way I am

I tend to be the most reactive (when and where?)

I tend to be the most proactive: (when and where?)

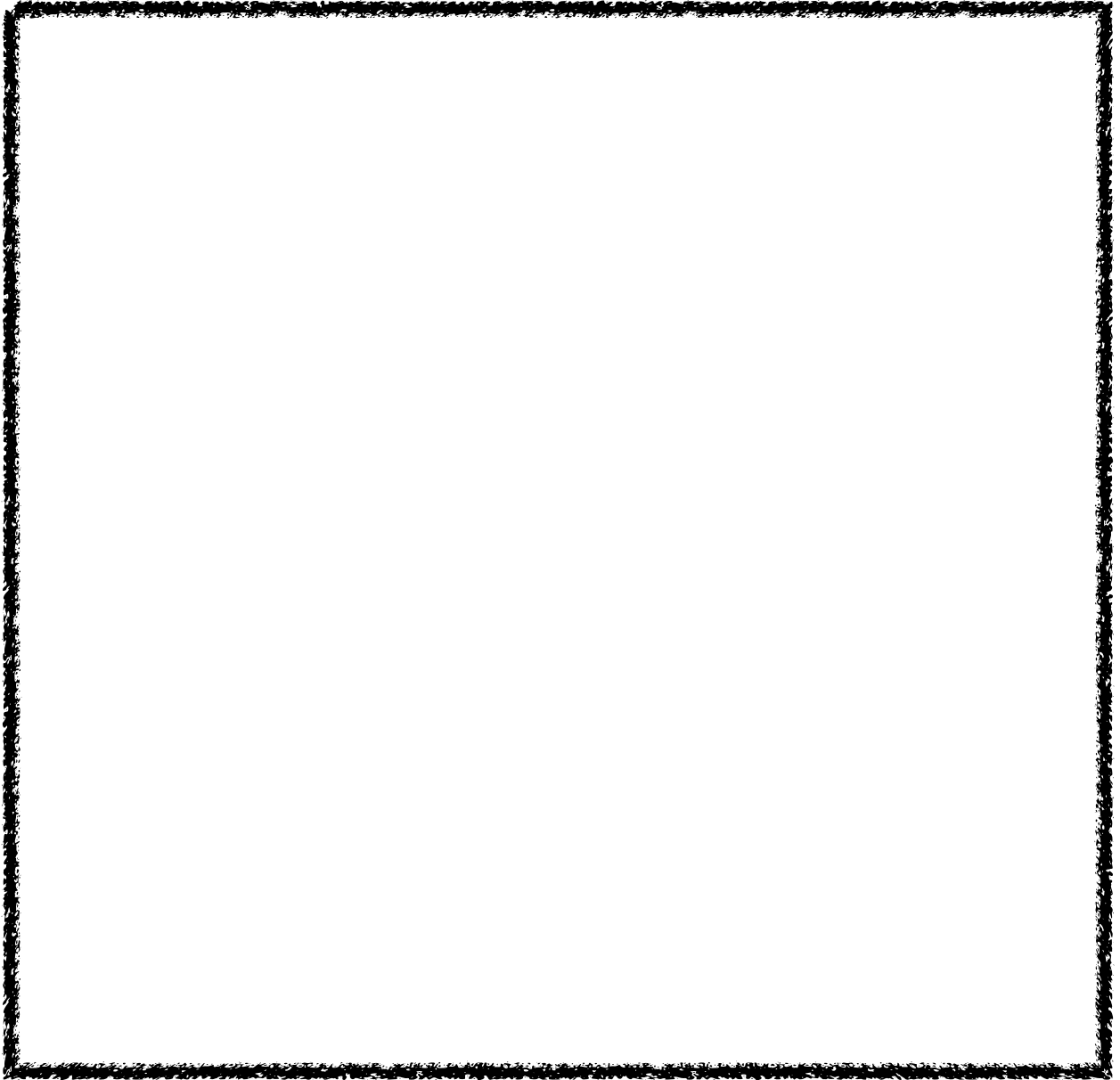
The difficult challenge in my life right now is?

I can face that challenge today and become a change agent by: (describe your actions)

## 7 Habits of Highly Effective Teens

In the space below draw your proactive self in 10 years.

- ★ Draw a picture of yourself as you want to be in 10 years
- ★ Draw a background. Where are you? Who is around you? What are you doing?
- ★ Below the picture list the positive attribute you possess as a proactive person



List of proactive attributes:

## 7 Habits of Highly Effective Teens

### Creating a Mission statement

A personal mission statement is like a personal motto that states what your life is about. It can become a map for your life's journey. Since your destination is not yet decided why not decide today to make your life extraordinary and leave a lasting legacy? To create a mission statement answer the following questions

1. Think of a person who made a positive difference in your life. What qualities does that person have that you would like to develop?
2. Imagine yourself in twenty years. You are surrounded by the most important people in your life. Who are they and what are you doing?
3. If a steel beam (6 inches wide) was placed between two skyscrapers, what would you be willing to cross for? A thousand dollars? A million dollars? Your pet? Your brother? Fame?
4. If you could spend one day in a great library studying anything you wanted what would you study?

## 7 Habits of Highly Effective Teens

5. List ten things you love to do. It can be anything, singing, dancing, reading, daydreaming

1.

2.

3.

4.

5.

6.

7.

8.

9.

10.

6. Describe a time when you were deeply inspired

7. 5 years from now your local paper does a story about you. The reporter wants to interview 3 people about you. Who would they be and what would they say?



## 7 Habits of Highly Effective Teens

8. Think of something that represents you (rose, song, animal). Why does it represent you?
  
9. If you could spend one hour with any person who ever lived who would that be? Why that person? What would you ask?

Read 'Getting started on your mission statement' on pages 90-91. Set a time for 5 minutes and start writing your mission statement. Just like when you do SWISH don't stop to edit just get all your ideas on paper. When you are done give yourself 2 minutes to edit and make it look nice and write your new mission statement below.

## 7 Habits of Highly Effective Teens

### Worksheet 6: Habit 3: Put First Things First

Don't let your fear decide

The world is full of emotions, but perhaps one of the worse is fear. Think of some experiences that you may have missed because your fears got the best of you. Fear whispers "You can't do it" or "they may make fun of you if..." Fear can prevent you from taking new classes without your friends, stop you from making new friends or trying out for teams. Acting in the face of fear is never easy but afterward you will be glad that you did

Face your fears

Some things I am comfortable doing are:

Some things that are easy for me but may seem hard or scary for others are (a sport, going up on stage to perform etc)

I am afraid of

Things that require courage for me to do are

## 7 Habits of Highly Effective Teens

The worse things that could happen if I face my fear is

The best thing that could happen if I face my fear is (Imagine how it would feel to be free of that feeling of fear)

Read 'The Other Half' on page 117-118 of the book. Somethings that hold me back from moving into my courage zone are

One thing that is outside my comfort zone that I am going to act on today is

## 7 Habits of Highly Effective Teens

### Worksheet 7: The Relationship Bank Account

Earlier you read about the Personal Bank Account and how it represents the amount of trust and confidence you have in yourself. Likewise the Relationship Bank Account (RBA) represents the amount of trust and confidence you have in each of your relationships.

So how do you build a healthy RBA? One deposit at a time. But you have to remember what may be a deposit to you, may not be one to another person, for example buying a box of chocolates to a person on a diet may not be a deposit. Another thing to consider is the withdrawals is determined by the other person in the relationship.

To help explain look at the list below

Deposit	Withdrawal
Keep Promises	Break Promises
Do small acts of kindness	Keep to yourself
Be loyal	Gossip and break confidences
Listen	Hear but don't listen
Say your sorry	Be arrogant
Set clear expectations	Set false expectations

Some of the most powerful deposits someone has made into my RBA are:

Where am I in my relationship with others?

Write the name of two people and put the dollar amount, either positive cash balance or negative for each person

Name: \_\_\_\_\_ \$ \_\_\_\_\_ + or - \_\_\_\_\_

Name: \_\_\_\_\_ \$ \_\_\_\_\_ + or - \_\_\_\_\_

## 7 Habits of Highly Effective Teens

For each category, I could do the following to improve my relationships

Friends:

Siblings:

Parents/Guardians

Teachers:

Girlfriend/Boyfriends

## 7 Habits of Highly Effective Teens

Read "Keeping Promises" section on pages 134-135.

A time I broke a promise to someone was:

I have rebuilt trust with that person now (true or false)

If true how did you rebuild the trust?

If false I can rebuild the trust by

A time I did not keep my promise to me was

The broken promise made me feel:

## 7 Habits of Highly Effective Teens

### Worksheet 8: Habit Four: Think Win-Win

The Win-Win chapter should teach you that thinking in 'Win-Lose' suggest that for you to do well, someone else has to do bad - but that isn't the case!

Think about a situation where I had a Win-Lose attitude (describe the event)

In that situation I felt:

Describe a situation where you had a Lose-Win attitude:

In that situation I felt:

Read the section on page 147-151 and answer the following questions

I could have changed the situations above to a Win-Win by... (describe your actions)

## 7 Habits of Highly Effective Teens

Five ways I can apply the Win-Win thinking to my relationships are:

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_

Read about Jacques Lusseyran on page 161. Use your feelings to test whether you think Win-Win the next time you interact with your family and friends.



## 7 Habits of Highly Effective Teens

### Worksheet 9: Habit 5: Seek First to Understand, Then to be Understood.

Read pages 165-167 of the book and answer the following questions

Two are Three Things I wish my parents/guardians understood about me are

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

Two are Three Things I wish my teachers understood about me are

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

Two are Three Things I wish my friends understood about me are

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

Someone i know who is struggling with a problem is:

How can I make him/her feel more comfortable, accepted and understood?

## 7 Habits of Highly Effective Teens

### 5 Poor listening Styles

You can't understand someone who is talking to you if you don't listen carefully? Surprise! Like most of us you probably don't know how to listen very well. We are usually too busy preparing our response, judging or making words fit our own paradigms. Usually we use one of these five poor listening styles

1. Spacing out: Someone is talking to you but your mind is elsewhere.

A time when someone spaced out on me was:

It made me feel:

I find myself doing this to someone else often True or False?

If true who do you do it do the most?

2. Pretending to listen: You are not listening but pretend you are but saying, un-huh, cool, mmmm etc.

A time when someone pretended to listen to me was

It made me feel:

## 7 Habits of Highly Effective Teens

I find myself doing this to someone else often. True or false

If true, who do you do it to the most?

3. Selective listening: You pay attention to the part that interest or relates to you.

A time when someone use selective listening to listen to me was

It made me feel:

I find myself doing this to someone else often. True or false

If true, who do you do it to the most?

4. Word Listening: You pay attention to the words but miss the point because you are ignoring the tone feelings and body language

A time when someone used word listening to listen to me was

## 7 Habits of Highly Effective Teens

It made me feel:

I find myself doing this to someone else often. True or false

If true, who do you do it to the most?

5. Self centered listening: You apply everything you hear to your own point-of-view You say "oh I know just what you mean" or "I know just how you feel: But you don't! Usually this is part of a one-upmanship where you are waiting to prove how your day was worse!

A time when someone used self-centered listening to listen to me was

It made me feel:

I find myself doing this to someone else often. True or false

If true, who do you do it to the most?

## 7 Habits of Highly Effective Teens

### Worksheet 10; Habit 6: Synergize

Synergy happens when two or more people work together to create a better solution than one could come up with on their own.

Synergy is...	Synergy is not...
keeping promises	breaking promises
being happy that we are all different	just tolerating differences
working in teams	working alone
being open-minded	thinking you are always right
thinking outside the box	always colouring within the lines
coming up with a 3rd alternative	compromising
brainstorming	insisting on only one right answer

Read 'Synergy is Everywhere' on page 183 of the book

The places I see synergy around me are: (give examples for each)

Nature:

School:

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Family:

Community/Religious Group

Work:

### Avoid Roadblocks to celebrating diversity

Although celebrating differences has many roadblocks three of the largest are

1. Ignorance: Not knowing how other people thinking, what they believe or how they feel
2. Cliques: Wanting to be with those you're comfortable with, which isn't wrong but can be a problem when that group becomes exclusive and rejects others
3. Prejudice: Not treating people fairly which includes stereotyping, labeling, or prejudging other because they differ from your own circumstances

A time I suffered because of someone else ignorance or saw someone else suffer for was:

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A time when I was outside a clique or observed someone outside a clique was:

Something I can do to avoid treating others with prejudice is

An area where I might be prejudiced is

One things I can do to overcome this prejudice is:

## 7 Habits of Highly Effective Teens

### Worksheet 11: Habit 7: Sharpen the Saw

Sharpen the saw is about balanced renewal in all four areas of human need: physical, mental, emotional and spiritual. As you renew yourself you increase your ability to handle the challenges that may come up in your lifetime.

If you are thinking you don't have time think about it this way

- Time to cut a log with a dull saw: 30 minutes
- Time to sharpen a blade: 5 minutes
- Time to cut a log with a sharp saw: 10 minutes

You just saved 15 minutes! But wait do you need to cut a log? If not it can still apply to you!

- Time left until your deadline (and your exhausted): 5 hours
- Time to sharpen your saw, refocus and reenergize: 30 minutes
- Time to finish the project now that you are refreshed: 3 hours

You just saved yourself 90 minutes!

Read the section "Sharpen your saw" on page 206 then complete the following assessment

	Never	Sometimes	Always
I eat a nutritious diet and try and stay away from junk			
I exercise regularly			
I get enough sleep			
I take care of personal hygiene			
I take time to relax			
I regularly read good books, magazines or newspapers			
I regularly listen to the news			
I play or listen to good music			
I write or draw			
I attend cultural events, watch uplifting movies or educational TV shows			
I learn new skills and develop my talents			



## 7 Habits of Highly Effective Teens

	Never	Sometimes	Always
I laugh out loud at least once a day			
I make deposits to my Relationship Bank Accounts			
I make deposits to my Personal Bank Account			
I use my talents			
I develop new relationships			
I pray or meditate regularly			
I keep a journal or private blog			
I read poetry or other inspiring literature			
I ponder my decisions and situations in life			
I enjoy going for nature walks, looking at landscapes or taking time to enjoy a sunset.			

Read pages "Balance is Better" on page 207 and decide three ways you are going to renew yourself

Body:

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

Brain:

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

## 7 Habits of Highly Effective Teens

Heart:

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

Soul:

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

Ten things I can do to take a time out are:

1.

2.

3.

4.

5.

6.

7.

8.

9.

10.

## 7 Habits of Highly Effective Teens

### Worksheet 12: Keep Hope Alive

Review some of the ideas you have worked your in these worksheets and ask yourself "Which one or two habits am I having the most difficult time with?"

Then choose just one or two things to work on:

1. \_\_\_\_\_

2. \_\_\_\_\_

One of the best ways to internalize and really learn something is to share or teach them to someone else.

I will share these ideas with the following people:

A quote from the book that I really love is

"You can't make footprints in the sands of time sitting on your butt. And who wants to leave  
buttpoints in the sands of time"

- Bob Moawad

Write your own closing quote to this book.

# WHAT'S GOING ON?

Current Event #1

Date of event: \_\_\_\_\_

Location of event: \_\_\_\_\_

Summarize the main points of this current event in your own words. (Complete paragraph)

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Do you think this is an important issue? Why? (Complete paragraph)

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Write a prayer concerning this event.

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# WHAT'S GOING ON?

Current Event #2

Date of event: \_\_\_\_\_

Location of event: \_\_\_\_\_

Summarize the main points of this current event in your own words. (Complete paragraph)

---

---

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---

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Do you think this is an important issue? Why? (Complete paragraph)

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---

---

Write a prayer concerning this event.

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**SP1****Pre-Algebra Regular Summer Review Packet****Compute. Use order of operations. Show all work!**

1.  $36 - 4 + \sqrt{25}$

2.  $8(3 + 7) - 5$

3.  $7(6) - 40 \div 5$

4.  $15 + 18 \div 3^2 - 6$

5.  $\sqrt{36} \div (15 - 9) 4$

6.  $(8 - 3)^2 \cdot (14 - 8)$

7.  $\frac{(12 - 5) \cdot 6}{7 - 4}$

8.  $\frac{80 \div (6 - 2)}{35 \div 7}$

9.  $2^4 \div [5^2 - (13 + 7)]$

10.  $40 - 2(15)$

11.  $6(8 - 4) + 5$

12.  $9(4) - 24 \div \sqrt{16}$

13.  $15 - 2(3)$

14.  $98 - (36 + 15)$

15.  $(98 - 36) + 15$

16.  $17 + 3(4 + 2)$

17.  $38 - 5(3 + 4)$

18.  $5(8 + 4) - |12|$

19.  $7(1 + 9) - 44$

20.  $(24 - 9) - (1 + 3)$

21.  $(50 + 16) - (17 - 6)$

22.  $\frac{8 + 7}{7 - 2}$

23.  $\frac{40}{4(2)}$

24.  $\frac{4(3)}{14 - 4}$

25.  $\frac{6(8 - 3)}{2}$

26.  $\frac{8}{2} + \sqrt{121}$

27.  $\frac{9}{3} - 1$

28.  $|-7| + \frac{18}{3(3)}$

29.  $\frac{9(2)}{6} + 4$

30.  $12 - \frac{8(5)}{4}$

**Use grouping symbols to make each statement true.**

31.  $25 - 8 \cdot 3 = 51$

32.  $9 + 4 \cdot 5 - 3 = 17$

33.  $9 + 9 \div 3 \cdot 5 - 3 = 12$

34.  $6 \cdot 5 - 5^2 + 2 = 3$

**Write as an algebraic expression.**

1. 7 less than 4 times a number

---

2. 11 more than half a number

---

3. 6 less than twice w

---

4. the sum of triple z and half of x

---

5. 5 more than the product of 14 and y

---

6.  $\frac{1}{2}$  the difference of a number and 15

---

7. double the sum of x and 5

---

8. 4 less than the quotient of x and -5

---

# General Review

Write the place-value position for each digit in 48.092.

1. the 9                      2. the 8                      3. the 4                      4. the 2

Replace each  $\bigcirc$  with  $<$ ,  $>$ , or  $=$  to make a true sentence.

5. 5,048  $\bigcirc$  5,084                      6. 7.641  $\bigcirc$  7.6410

Add, subtract, multiply, or divide.

7. 
$$\begin{array}{r} 2,068 \\ + 487 \\ \hline \end{array}$$
      8. 
$$\begin{array}{r} 40,236 \\ + 14,890 \\ \hline \end{array}$$
      9. 
$$\begin{array}{r} 584 \\ - 391 \\ \hline \end{array}$$
      10. 
$$\begin{array}{r} 6,000 \\ - 3,109 \\ \hline \end{array}$$

11.  $5.8 + 10.3 =$                       12.  $4.39 + 21.6 + 0.934 =$

13.  $4.10 - 2.684 =$                       14.  $\$147.04 - \$76.38 =$

15. 
$$\begin{array}{r} 807 \\ \times 6 \\ \hline \end{array}$$
      16. 
$$\begin{array}{r} 57 \\ \times 63 \\ \hline \end{array}$$
      17. 
$$\begin{array}{r} 9.07 \\ \times 12 \\ \hline \end{array}$$
      18. 
$$\begin{array}{r} 12.015 \\ \times 0.14 \\ \hline \end{array}$$

9.  $4\overline{)824}$       20.  $38\overline{)342}$       21.  $0.8\overline{)50.4}$       22.  $0.56\overline{)1.148}$

Find the greatest common factor for each set of numbers.

23.                      32 and 48                      24.                      16, 24, and 72

Find the least common multiple for each set of numbers.

25.                      33 and 39                      26.                      22, 44, and 55

Write each fraction in simplest form.

27.  $\frac{10}{16} =$       28.  $\frac{15}{27} =$       29.  $\frac{12}{40} =$       30.  $\frac{28}{60} =$

Replace each  $\bigcirc$  with  $<$ ,  $>$ , or  $=$  to make a true sentence.

31.  $\frac{7}{9} \bigcirc \frac{5}{6}$                       32.  $\frac{10}{12} \bigcirc \frac{5}{6}$

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_
11. \_\_\_\_\_
12. \_\_\_\_\_
13. \_\_\_\_\_
14. \_\_\_\_\_
15. \_\_\_\_\_
16. \_\_\_\_\_
17. \_\_\_\_\_
18. \_\_\_\_\_
19. \_\_\_\_\_
20. \_\_\_\_\_
21. \_\_\_\_\_
22. \_\_\_\_\_
23. \_\_\_\_\_
24. \_\_\_\_\_
25. \_\_\_\_\_
26. \_\_\_\_\_
27. \_\_\_\_\_
28. \_\_\_\_\_
29. \_\_\_\_\_
30. \_\_\_\_\_
31. \_\_\_\_\_
32. \_\_\_\_\_

# General Review

SP3

*Add, subtract, multiply, or divide.  
Write each result in simplest form.*

33.  $\frac{4}{11} + \frac{3}{11} =$

34.  $\frac{7}{12} + \frac{1}{6} =$

35.  $2\frac{8}{9} + 8\frac{2}{3} =$

36.  $\frac{8}{17} - \frac{7}{17} =$

37.  $\frac{2}{3} - \frac{7}{15} =$

38.  $2\frac{5}{8} - 1\frac{5}{6} =$

39.  $\frac{4}{5} \times \frac{1}{3} =$

40.  $\frac{8}{15} \times \frac{3}{4} =$

41.  $1\frac{7}{8} \times 3\frac{3}{5} =$

42.  $\frac{1}{8} \div \frac{1}{3} =$

43.  $\frac{3}{8} \div 6 =$

44.  $5\frac{5}{8} \div 1\frac{7}{8} =$

*Write each percent as a decimal and each decimal as a percent.*

45.  $6\% =$

46.  $0.195 =$

*Find the percent of each number.*

47. 125% of 10

48. 6.8% of 500

*Complete the following.*

49. 420 min =  h

50. 5 ft =  in.

*Solve.*

51. A train traveled 671 miles one day and 869 miles the next. How many miles is this altogether?

52. A 28-story building has 32 rooms on each floor. How many rooms are in the building?

53. There are 6 buses and 282 passengers. How many are on a bus if each one carries the same number of passengers?

54. A television set is on sale at \$43.50 off the original price. Find the sale price if the original price is \$350.

55. A shirt is purchased for \$10.39. How much change is given from \$15?

56. The admission to a movie is \$3.50. What amount is collected for 136 admissions?

*Find the mean for the following groups of numbers.*

57. 63, 67, 60, 78, 74, 72

58. 41, 37, 25, 36, 31

- 33. \_\_\_\_\_
- 34. \_\_\_\_\_
- 35. \_\_\_\_\_
- 36. \_\_\_\_\_
- 37. \_\_\_\_\_
- 38. \_\_\_\_\_
- 39. \_\_\_\_\_
- 40. \_\_\_\_\_
- 41. \_\_\_\_\_
- 42. \_\_\_\_\_
- 43. \_\_\_\_\_
- 44. \_\_\_\_\_
- 45. \_\_\_\_\_
- 46. \_\_\_\_\_
- 47. \_\_\_\_\_
- 48. \_\_\_\_\_
- 49. \_\_\_\_\_
- 50. \_\_\_\_\_
- 51. \_\_\_\_\_
- 52. \_\_\_\_\_
- 53. \_\_\_\_\_
- 54. \_\_\_\_\_
- 55. \_\_\_\_\_
- 56. \_\_\_\_\_
- 57. \_\_\_\_\_
- 58. \_\_\_\_\_



# Addition and Subtraction Equations

SP4

Solve each equation. Show algebra steps.

1.  $z + 16 = 4$

2.  $0 = m + 17$

3.  $-3 = j + 5$

4.  $h + 13 = 21$

5.  $9 + g = -20$

6.  $-7 + d = -26$

7.  $a - 20 = -3$

8.  $w - 18 = 7$

9.  $t - 19 = 23$

10.  $-9 = k - 11$

11.  $-15 = n - 22$

12.  $27 = x - 14$

13.  $-8 + b = -5$

14.  $t - 24 = 12$

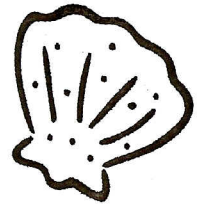
15.  $-28 + p = -3$

Write true or false. If false, explain why.

- 16.) The only prime factors of 252 are 2, 3, and 7.
- 17.) The GCF of 14 and 15 is 1.
- 18.) The prime factorization of 63 is  $3 \times 21$ .
- 19.) The only prime factors of a power of 10 are 2 and 5.
- 20.) The GCF of 27 and 45 is 3.
- 21.) If the GCF of two numbers is 1, the numbers have no common factors.
- 22.) Every multiple of 4 is a multiple of 16.

Solve. There are two numbers.

- 23.) One number is 10. The unknown number is less than 10. The GCF of the numbers is 2. Their LCM is 30. What is the unknown number?



## SP5

Use the distributive property to write an equivalent expression.

1.  $5(5 + c)$  \_\_\_\_\_

2.  $-8(y + 2)$  \_\_\_\_\_

3.  $(m + 1)9$  \_\_\_\_\_

4.  $-3(2a + 5)$  \_\_\_\_\_

5.  $4(y + 3z)$  \_\_\_\_\_

6.  $(2a + 3b)4$  \_\_\_\_\_

Combine like terms.

7.  $17c + 6c$  \_\_\_\_\_

8.  $3y + 7x + 5y$  \_\_\_\_\_

9.  $3a + 16 + 9a + 2a$  \_\_\_\_\_

10.  $5m + 11n + 11m + 5n$  \_\_\_\_\_

11.  $4(x + 5) + 8x + 7$  \_\_\_\_\_

12.  $36 - 72t + 4t$  \_\_\_\_\_

Scientific Notation

Write using standard notation.

13.  $6.781 \times 10^5$  \_\_\_\_\_

14.  $2.001 \times 10^{-2}$  \_\_\_\_\_

15.  $7.61 \times 10^{-5}$  \_\_\_\_\_

16.  $3.114 \times 10^3$  \_\_\_\_\_

Write using scientific notation.

17. 6,821,000 \_\_\_\_\_

18. 0.810001 \_\_\_\_\_

19. 0.00000671 \_\_\_\_\_

20. 2,631 \_\_\_\_\_

## SP6

### Multiplication and Division Equations

Solve each equation. Show perfect algebra steps.

1.  $-6y = -84$

2.  $\frac{7}{8}t = 49$

3.  $440 = 15a$

4.  $-136 = -17k$

5.  $126 = -21p$

6.  $0.15c = 600$

7.  $\frac{d}{-9} = 11$

8.  $\frac{p}{8} = 4\frac{1}{4}$

9.  $22 = \frac{g}{-32}$

10.  $-2.1 = \frac{r}{14}$

11.  $-15 = \frac{w}{-12}$

12.  $\frac{z}{-18} = 18$

**Write and solve an equation. Set up the variable first (let x = )**

13. Joan's age is triple the age of her daughter. If Joan is 42 years old, how old is her daughter?

14. I have a secret number. Seven more than quadruple my number equals -5. What is my number?

15. Sam and three friends are splitting a pizza. If each person pays \$4.50, what was the cost of the pizza?

# Fraction Practice

SP7

Show all work.

1. Replace each    ? with  $>$ ,  $<$ , or  $=$ .

a.  $\frac{5}{9}$     ?  $\frac{5}{11}$

b.  $\frac{47}{48}$     ?  $\frac{48}{49}$

c.  $\frac{12}{25}$     ?  $\frac{10}{12}$

d.  $\frac{24}{25}$     ?  $\frac{8}{9}$

e.  $\frac{14}{25}$     ?  $\frac{14}{27}$

f.  $\frac{9}{16}$     ?  $\frac{13}{18}$

2. Find each sum or difference. Write each answer in lowest terms.

a.  $\frac{2}{3} - \frac{4}{9}$

b.  $\frac{11}{12} - \frac{5}{8}$

c.  $\frac{4}{15} + \frac{2}{3}$

d.  $\frac{3}{8} + \frac{1}{6}$

e.  $\frac{2}{3} - \frac{5}{11}$

f.  $\frac{5}{12} + \frac{2}{9}$

3. Carl has a rock collection. Of the rocks,  $\frac{3}{8}$  are quartz and  $\frac{1}{3}$  are granite. What fraction of Carl's rocks are quartz or granite?

## For use with Section 3

4. Find each sum or difference. Write each answer in lowest terms.

a.  $3\frac{2}{3} + 1\frac{5}{9}$

b.  $6\frac{2}{3} - 4\frac{2}{5}$

c.  $48\frac{1}{3} - 26\frac{1}{2}$

d.  $6\frac{3}{4} + 9\frac{5}{6}$

e.  $6\frac{3}{4} - 2\frac{1}{2}$

f.  $15 - 4\frac{7}{12}$

g.  $78\frac{1}{2} - 24\frac{3}{4}$

h.  $12\frac{1}{2} + 8\frac{7}{10}$

i.  $18\frac{5}{6} - 4\frac{3}{5}$

5. Find each product. Write each answer in lowest terms.

a.  $4 \cdot 2\frac{1}{6}$

b.  $5 \cdot 2\frac{1}{4}$

c.  $\frac{3}{4} \cdot \frac{8}{9}$

d.  $\frac{5}{8} \cdot \frac{2}{5}$

e.  $2\frac{3}{5} \cdot 1\frac{3}{8}$

f.  $1\frac{3}{4} \cdot \frac{2}{3}$

6. Find each quotient. Write each answer in lowest terms.

a.  $6 \div \frac{5}{6}$

b.  $3\frac{1}{4} \div 1\frac{3}{4}$

c.  $3 \div 1\frac{2}{7}$

d.  $9 \div \frac{3}{8}$

e.  $2\frac{5}{6} \div \frac{1}{3}$

f.  $2\frac{4}{9} \div \frac{2}{3}$

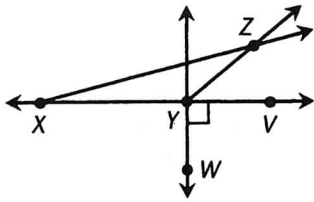
7. Sonya has 9 yd of wrapping paper. She cuts the paper into pieces that are  $\frac{2}{3}$  yd long. How many pieces does she have?

8. A recipe for rice pudding calls for  $3\frac{3}{4}$  c milk. How much milk would you need to triple the original recipe?

# Mixed Review

Choose the best answer.

1. Which of the following statements is false?



- a.  $\angle YXZ$  is obtuse.
- b.  $\angle XYV$  is straight.
- c.  $\angle ZYV$  is acute.
- d.  $\angle WYV$  is right.

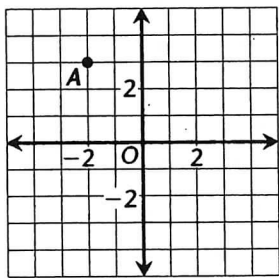
2.  $\angle A$  and  $\angle B$  are complementary. The measure of  $\angle A$  is  $20^\circ$ . What is the measure of an angle that is supplementary to  $\angle B$ ?

- a.  $70^\circ$
- b.  $110^\circ$
- c.  $140^\circ$
- d.  $160^\circ$

3. The deepest point in the world's oceans is 35,797 ft below sea level. Mt. Everest is 29,029 ft high. What is the difference between these two elevations?

- a. 6668 ft
- b. 6768 ft
- c. 64,826 ft
- d. 65,716 ft

4. What are the coordinates of point A?



- a.  $(-2, 3)$
- b.  $(-2, -3)$
- c.  $(3, -2)$
- d.  $(-3, 2)$

5. Evaluate  $-14 - (18 - 21)$ .

- a. -11
- b. -17
- c. -43
- d. -53

6. David wants to buy a \$1.25 sandwich and a \$0.95 soda for each of his  $n$  friends. Write an equation that models the relationship between his total cost  $C$  and  $n$ .

- a.  $C = n + 1.25 + 0.95$
- b.  $n = \frac{C}{1.25} + 0.95$
- c.  $C = n(1.25 + 0.95)$
- d.  $C = \frac{n(1.25)}{0.95}$

7. Evaluate  $a^2 - b + 4$  when  $a = 5$  and  $b = -2$ .

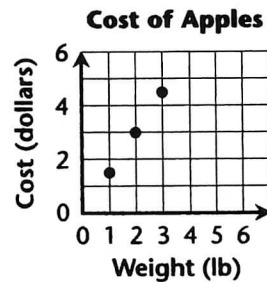
- a. 4
- b. 16
- c. 19
- d. 31

8. Write an equation that models this sentence:

Eight less than three times a number  $y$  equals  $x$ .

- a.  $8 - 3y = x$
- b.  $8(3 - y) = x$
- c.  $3(x - 8) = y$
- d.  $3y - 8 = x$

9. Predict the cost of 5 lb of apples.



- a. \$6.50
- b. \$7.00
- c. \$7.50
- d. \$8.00

10. Solve  $-24 = 6 - 3x$ .

- a. -6
- b. -10
- c. 10
- d. 18

Integer PracticeEvaluate. Let  $x = 6$ ,  $y = -4$ , and  $z = 10$ 

1.)  $x - y =$  \_\_\_\_\_

2.)  $x^2 + y^2 =$  \_\_\_\_\_

3.)  $xy + z =$  \_\_\_\_\_

4.)  $3yz - 40 =$  \_\_\_\_\_

5.)  $x^2 + x =$  \_\_\_\_\_

6.)  $5z - y =$  \_\_\_\_\_

7.)  $\frac{y+z}{x} =$  \_\_\_\_\_

8.)  $\frac{xz}{y} =$  \_\_\_\_\_

Compute.

9)  $(-3)^2(-2)^3$

10)  $(-3)(-12)(-1)$

11)  $(-7)(5)(-4)$

12)  $\frac{-6 + (-3) + (-7)}{4}$

13)  $\frac{-60}{-3} + \frac{-48}{4}$

14)  $\frac{-9 \cdot 5}{3}$

15)  $-5 \cdot 2 \cdot 53$

16)  $-1(-6) + 8(-2)$

17)  $(-2)(-3) + (-1)(7)$

18)  $-8 + 17 + (-3)$

19)  $(-9)^2(-1)^5$

20)  $(-4)^3$

21)  $\frac{-72}{8} + \frac{-56}{7}$

22)  $(-8)(-1)(4)(-3)$

23)  $\frac{(-4)(-25)}{5}$

24)  $(-3 \cdot 7) + (-2 \cdot 4)$

25)  $\frac{9(-4)}{-2}$

26)  $\frac{-19 + (-11)}{6}$

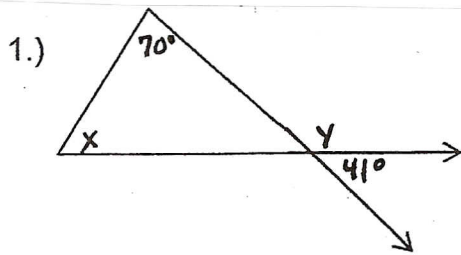
27)  $\frac{170}{-10} + \frac{96}{12}$

28)  $\frac{-32}{2} + \frac{-75}{-15}$

29)  $80 + (-50) + (-70)$

# Geometry

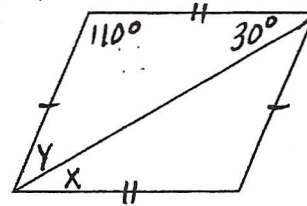
Find the missing angle measures using algebraic equations.



$m\angle x = \underline{\hspace{2cm}}$

$m\angle y = \underline{\hspace{2cm}}$

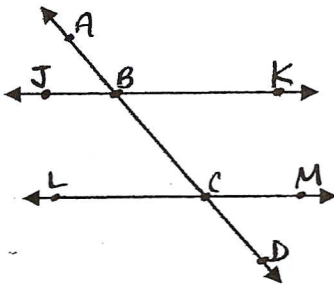
2.)



$m\angle x = \underline{\hspace{2cm}}$

$m\angle y = \underline{\hspace{2cm}}$

3.)



$\overline{JK} \parallel \overline{LM}$

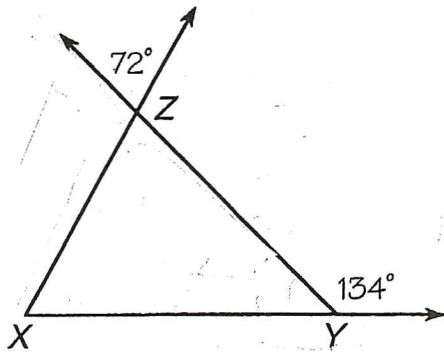
a.) Give another name for  $\overline{AD}$  \_\_\_\_\_

b.) Give another name for  $\overline{ML}$  \_\_\_\_\_

c.) Name a supplement to  $\angle BCL$  \_\_\_\_\_

d.)  $\angle JBC$  and  $\angle$  \_\_\_\_\_ are corresponding angles

e.)  $\angle KBC$  and  $\angle BCL$  are \_\_\_\_\_ angles



**L**  $m\angle XZY =$

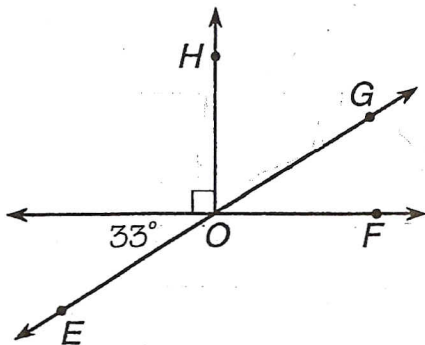
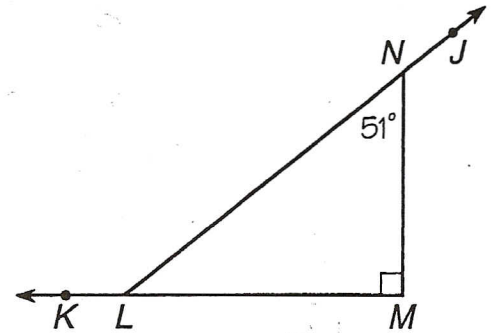
**D**  $m\angle ZYX =$

**B**  $m\angle X =$

**U**  $m\angle JNM =$

**Z**  $m\angle NLM =$

**I**  $m\angle NLK =$



**Q**  $m\angle FOG =$

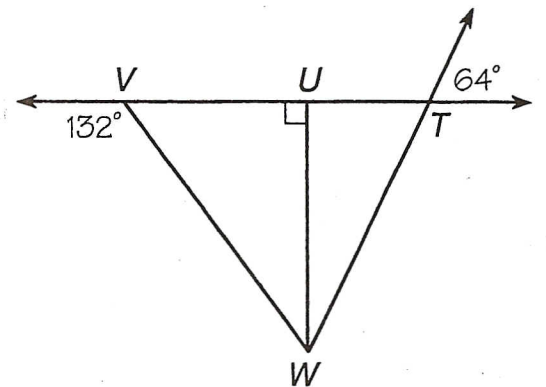
**H**  $m\angle GOH =$

**R**  $m\angle EOF =$

**C**  $m\angle UVW =$

**E**  $m\angle VWU =$

**N**  $m\angle UWT =$



# Graphs and Statistics

Find the missing value from the mean.

1.) Friends ages: 18, 13, 14, \_\_\_\_\_ Mean = 14

2.) Cost of t-shirts: \$15, \$8, \$12.50, \$9.50, \_\_\_\_\_ Mean = \$11

Terence wants to earn at least a B (80%) in science. His scores so far are: 91, 75, 68, 84, \_\_\_\_\_

3.) Is it possible for him to earn a B overall? \_\_\_\_\_

4.) What is the lowest score he needs on the fifth test to earn a B? \_\_\_\_\_

**Use the table for Exercises 5–7. The table shows the number of hospitals in ten different states.**

5. Make a stem-and-leaf plot of the data. Be sure to include a key and a title.
6. Find the range, the mean, the median, and the mode for the data.
7. Vermont has 15 hospitals. Suppose you include Vermont in the list. How would your stem-and-leaf plot change?

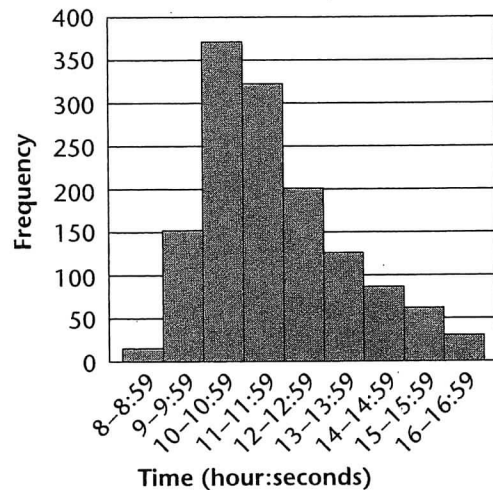
**Number of Hospitals in Selected States**

State	Number of hospitals
Arizona	60
Colorado	69
Idaho	41
Maryland	49
Montana	53
New Mexico	37
North Dakota	46
South Carolina	67
Utah	42
West Virginia	58

**Use the histogram for Exercises 8 and 9.**

8. How many triathletes finished the Ironman triathlon in less than 10 hours?
9. Can you tell the slowest time in which anyone finished the triathlon? Explain.

**Finishing Times for Ironman Triathlon, 1997**





# Proportions

Use equivalent ratios or cross-products to solve each proportion.

1.  $\frac{2}{7} = \frac{24}{x}$

2.  $\frac{4}{15} = \frac{x}{90}$

3.  $\frac{x}{20} = \frac{154}{280}$

4.  $\frac{x}{14} = \frac{10}{4}$

5.  $\frac{x}{22} = \frac{20}{5}$

6.  $\frac{x}{16.5} = \frac{84}{132}$

7.  $\frac{40}{24} = \frac{x}{9}$

8.  $\frac{63}{93} = \frac{x}{31}$

9.  $\frac{x}{14} = \frac{11}{35}$

In Exercises 22–25, write and solve a proportion to solve the problem.

10. Four notebooks cost \$4.40. How many notebooks can you buy for \$6.60?

11. Two roses cost \$3.50. How many roses can you buy for \$17.50?

12. A roll of paper towels cost \$1.90. How many rolls can you buy for \$9.50?

13. Carl works 8 hours and earns \$52. How many hours would he have to work to earn \$130?

14. Use the table below that shows the prices of several fruits to answer the following questions.

Fruit	Price
Apples	4 for \$3.00
Bananas	3 lb/\$1.50
Cantaloupes	2 for \$2.50
Cherries	2 lb/\$2.40
Peaches	1 lb/\$.90

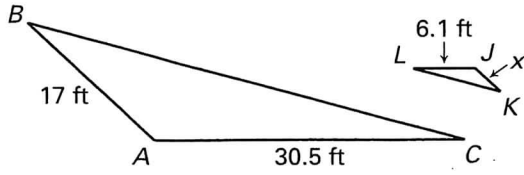
a. How much would 5 pounds of bananas cost?

b. How much would 7 apples cost?

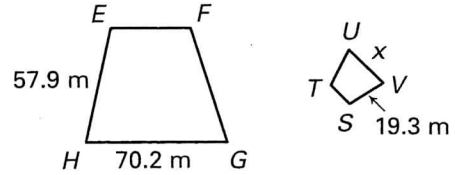
# Similar Triangles

Use a proportion to find the specified length marked with an  $x$ .

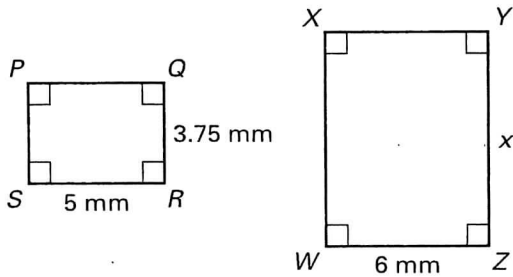
1. Given  $\triangle ABC \sim \triangle JKL$ , find  $JK$ .



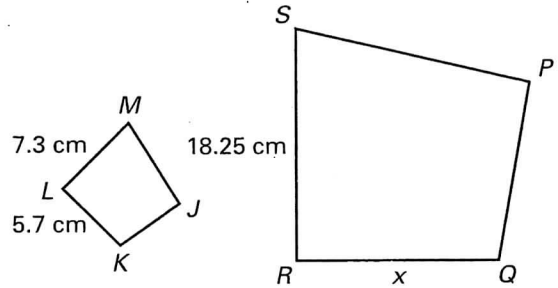
2. Given  $EFGH \sim STUV$ , find  $UV$ .



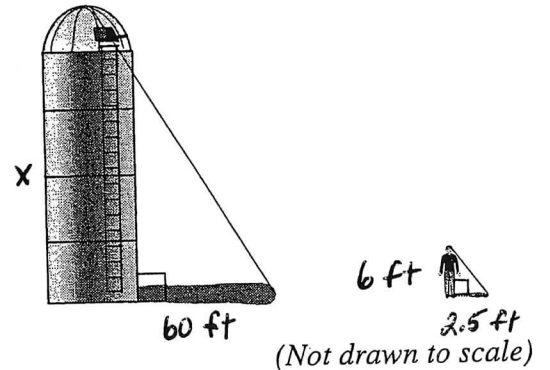
3. Given  $PQRS \sim WXYZ$ , find  $YZ$ .



4. Given  $JKLM \sim PQRS$ , find  $QR$ .



5. A farmer is standing next to the silo on his farm. The farmer is 6 feet tall and his shadow is 2.5 feet long. If the shadow of the silo is 60 feet long, what is the height of the silo?  
Write and solve a proportion to find the answer.



# Percent Problems

SP15

Use mental math.

- 1.) What is 25% of 48? \_\_\_\_\_
- 2.) What is 75% of 60? \_\_\_\_\_
- 3.) What is 150% of 18? \_\_\_\_\_
- 4.) 8 is 20% of what number? \_\_\_\_\_
- 5.) 4 is what percent of 12? \_\_\_\_\_
- 6.) What is 15% of \$80? \_\_\_\_\_

Solve using a proportion or equation.

- 7.) What is 32% of 84?      8.) What percent of 24 is 8?      9.) 48% of what number is 38.4?
- 10.) What percent of 84 is 70?      11.) What is 45% of \$180?      12.) 120% of what number is 90?
- 13.) What is 57% of 250?      14.) 3.5 is what percent of 50?      15.) What is  $2\frac{1}{2}\%$  of 624?

Find the discount and sale price. Round to the nearest cent.

- 16.) regular price: \$87  
rate of discount:  $33\frac{1}{3}\%$
- 17.) regular price: \$39.95  
rate of discount: 25%
- 18.) regular price: \$42  
rate of discount: 30%

Find the sales tax on each item and the total cost.

- 19.) tennis racket  
cost: \$59.98;  
sales tax: 6%
- 20.) television  
cost: \$2,150;  
sales tax:  $5\frac{1}{2}\%$
- 21.) compact disc  
cost: \$14.95;  
sales tax: 7.6%

Solve using a proportion or equation.

- 22.) Toni has \$8.40, which is 70% of the price of a concert ticket. What is the full price?
- 23.) There are 140 students in the seventh grade and 84 of them are in the band. What percent of the seventh grade is not in the band?
- 24.) A \$45 video game is on sale at 15% off. How much money will be saved?
- 25.) Ms. Chu receives 7% commission on her sales. How much will she earn on sales of \$4200?
- 26.) Serena scored 63 points on the 84-point test. What percentage did she earn?

# Geometry, Area, Volume Practice

## Set A

Complete. Use Figure 1.  $\overleftrightarrow{AB} \parallel \overleftrightarrow{CD}$ .  $\overleftrightarrow{EF} \perp \overleftrightarrow{CD}$ .  $m\angle 1 = 65^\circ$

- $\overleftrightarrow{EF} \perp$  \_\_\_\_\_.
- $\angle 14$  is a(n) \_\_\_\_\_ angle.
- $\overleftrightarrow{EF}$  and  $\overleftrightarrow{HI}$  intersect at \_\_\_\_\_.
- $\angle 4$  is a(n) \_\_\_\_\_ angle.
- $\angle$  \_\_\_\_\_ and  $\angle$  \_\_\_\_\_ are complementary angles.
- $\angle 12$  and  $\angle$  \_\_\_\_\_ are adjacent angles.
- $\angle 2$  and  $\angle$  \_\_\_\_\_ are vertical angles.
- $\angle 1$  and  $\angle$  \_\_\_\_\_ are corresponding angles.
- $m\angle 12 =$  \_\_\_\_\_      10.  $m\angle HGD =$  \_\_\_\_\_

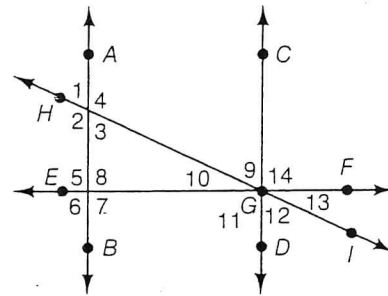


Figure 1

## Set B

Find the area of each figure. Use 3.14 for  $\pi$ .

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## Set C

Find the volume and surface area of each figure.

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## Set D

Find the volume of each figure. Use 3.14 for  $\pi$ .

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- 

### Formulas

$A = \ell w$	$V = \ell wh$
$A = s^2$	$V = e^3$
$A = bh$	$V = \pi r^2 h$
$A = \frac{1}{2}bh$	
$A = \frac{1}{2}(b_1 + b_2)h$	
$A = \pi r^2$	
$SA = 2\ell w + 2\ell h + 2wh$	
$SA = 6e^2$	

## MASS REFLECTION #1

DATE: \_\_\_\_\_

### PRE-MASS REFLECTION:

1. What are the 2-3 things that are dominating your attention and thoughts today? What can you ask of God in the Liturgy to address these things?
2. The Mass is an opportunity to receive forgiveness of venial sins. Are there people who you have hurt in some way by your words, actions, or failure to act?
3. The word eucharist means "thanksgiving." What are you most thankful for today?

### POST-MASS REFLECTION

1. What experiences during the Mass did you find relevant to your current situation and life?
2. Reflections on the Liturgy of the Word: What word or phrase jumped out at you in today's reading?
3. The name Mass comes from the Latin missa, which means to "go forth" and is taken from the final words of the concluding rite. What are the greatest needs that you see in your everyday life? Empowered with the love of God in the Eucharist, what will you do to help meet those needs?

## MASS REFLECTION #2

DATE: \_\_\_\_\_

### BEFORE MASS REFLECTION:

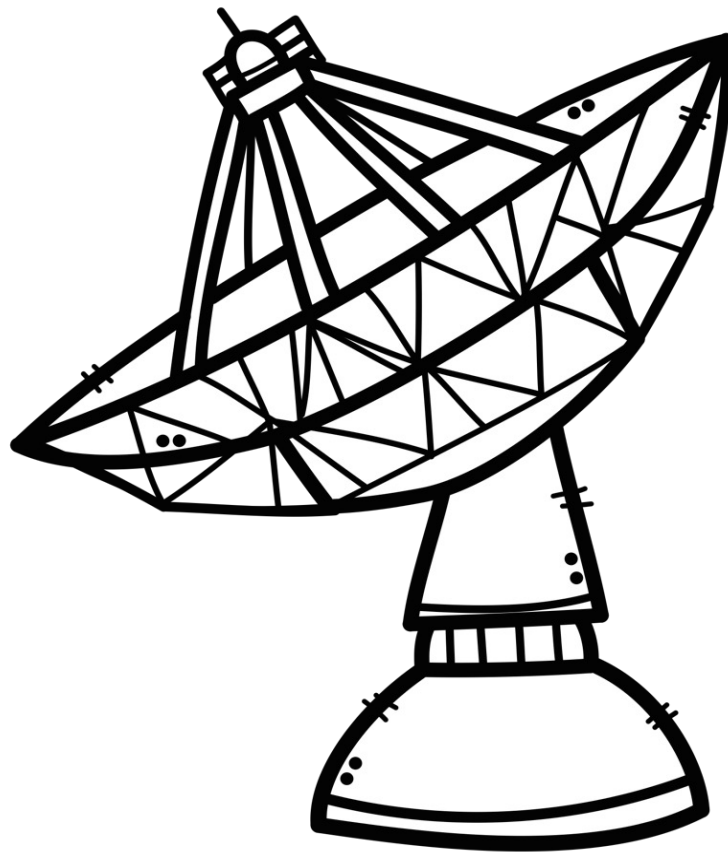
1. Has God been at work in your daily life? What evidence is there that God is communicating with you daily? How do you expect this communication to continue during the Liturgy?
2. The Mass is an opportunity to receive forgiveness of venial sins. What personal weaknesses can God take over for you today?
3. The word eucharist means "thanksgiving." As a celebration of thanksgiving, what has God done for you in your lifetime that you can thank him for today?

### POST-MASS REFLECTION:

1. What was the holiest experience you had during Mass?
2. Reflections on the Liturgy of the Word: What did this reading remind you of in your life at this particular moment?
3. The name Mass comes from the Latin *missa*, which means to "go forth" and is taken from the final words of the concluding rite. What are the greatest needs that you see in your everyday life? Empowered with the love of God in the Eucharist, what will you do to help meet those needs?

# Time Travel through Space History

Space Exploration STEM Activities  
1950  
Sputnik and Satellites



# 1950 Satellites and Sputnik

## What is a satellite?

A satellite is any smaller object that moves around a larger object. So a moon orbiting around a planet is really a satellite. However, most of the time when we talk about satellites we are talking about the man-made objects that we put into space.

## What do satellites do?

Because satellites orbit the Earth they are able to view large areas of the Earth at one time. This is particularly helpful for satellites that are put into space to help predict the weather. Some satellites are put into space to help us learn about the solar system and the universe beyond and they face away from the Earth. Other satellites are launched to enable communication around the world. Many of the satellites help ships, planes and even people on Earth navigate their way with a system called GPS. Many countries launch satellites to help their militaries locate armies and their supplies.

## What does a satellite look like?

Satellites come in all shapes and sizes. The parts of a satellite depend upon what its specific purpose is. For example, if the satellite's purpose is to learn about the solar system it will have a camera. However, all satellites need to have some sort of power source and also a way to communicate with earth. Many satellites employ solar panels to use the sun's energy as a power source.

## What was Sputnik?

The first satellite put into space was the Sputnik 1 launched by the Soviet Union in 1957. The United States quickly followed a year later with Explorer I in 1958. Since then over 2,500 satellites have been launched into space by the various countries of the world.

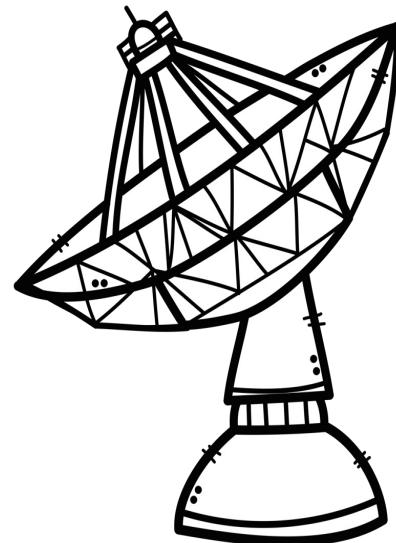


# Your Mission

Satellites are put into space for many different reasons such as part of communication systems, help planes, ships and people with navigation and to assist in military operations. Many satellites are put into space for help monitor weather.

**You have been asked to build a prototype of a weather satellite for The National Oceanic and Atmospheric Administration -NOAA.** This satellite will monitor weather conditions in the upper atmosphere and also take pictures of weather events such as hurricanes and tornadoes. It must meet the following requirements:

- Have a body to support the other needed parts and scientific weather instruments. This body can be whatever shape you desire.
- Carry the following instruments:
  - Power source - usually solar panels
  - Communication antenna
  - Navigation equipment so that it knows where in the universe it is
  - Camera
- Be equipped with at least one other scientific tool of your choosing. You must be specific on your drawing and also state its purpose in the problem-solving section.
- Have one moveable part, such as an antenna or camera that can change direction



# Problem Solving

What other scientific tool will your satellite carry? What is its purpose?

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What will the body of your satellite look like?

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How will you connect the instruments to the body of the satellite?

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Which part will be the part that moves? How will you get it to move?

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Which of the materials will work the best for the different parts of your satellite?

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