



High School Sub Plans, One Day

Emergency sub plans for grades 9 to 12, in any subject. The sub reads the script, and every answer is in the key.

PREVIEW

What is included

- 7 front pages: binder cover, important information, note to the sub, the lesson plan filled in, schedule, class list and dismissal, how it went
- 9 activities, each with its own sub script and student pages (31 pages)
- Answer keys on the sub scripts
- Color and ink-saver B&W, US Letter and A4

How it works

1. Leave the binder out. The lesson plan lists every activity with its page and minutes.
2. The sub reads the Read This Out box word for word.
3. Students work from their own pages. The sub needs no subject knowledge.
4. No prep and no tech: print and go.

The 9 activities, 33 to 45 minutes each

1. **Quiet Reading**, 45 min: close reading of literary and informational text, citing evidence, making inferences
2. **Fifty-Word Summary**, 45 min **NEW**: two-column note-taking, academic vocabulary in context, writing an objective summary
3. **Finish the Story**, 42 min: planning and writing a short narrative with a clear conflict and resolution
4. **Math Menu**, 45 min: solving linear, exponent and quadratic equations, systems and slope, primes and perfect squares, percent change, interest, the Pythagorean theorem and probability
5. **Draw and Pass**, 33 min: expressing an idea precisely in words and in pictures, interpreting someone else's meaning
6. **Brain Teaser Tournament**, 43 min: logical reasoning, wordplay and number sense, reaching a team decision
7. **The Open House Mix-Up**, 40 min **NEW**: deductive reasoning, organizing information in a logic grid, testing ideas against evidence as a team
8. **Category Race**, 41 min: vocabulary, spelling and quick recall of words across subjects
9. **This or That Stand-Off**, 42 min: building an argument with reasons, speaking persuasively, weighing other points of view

What this preview shows: the note to the substitute, the lesson plan, the other front pages, one page of every activity, a sub script, the two new activities and one ink-saver page. Every product page is watermarked. The full binder has 38 pages.



Note to the Substitute

Grades 9 to 12 · 9 one-period activities · any subject · nothing to prepare

Thank you for covering my class

Everything you need is in this binder. The front pages (important information, lesson plan, schedule of the day, class list) are filled in for today. After them come 9 activities. Each one fills most or all of a period of 40 to 50 minutes, runs from the printout alone, and carries its own content and answer key, so you never have to make anything up or know the subject.

The first page of every activity is your script. It says what the activity practices, how to set it up, and how long each step takes.

The box marked **Read this out** is written to be read aloud word for word. Where an activity has an answer key, it is on the script page (for the logic mystery, on the page right after the script). Keep those pages with you and hand out only the student pages.

The 9 activities

- **Quiet Reading** quiet single · 45 min · p. 7
- **Fifty-Word Summary** quiet single · 45 min · p. 12
- **Finish the Story** quiet single · 42 min · p. 16
- **Math Menu** quiet single · 45 min · p. 19
- **Draw and Pass** quiet group · 33 min · p. 23
- **Brain Teaser Tournament** group or single · 43 min · p. 25
- **The Open House Mix-Up** team logic · 40 min · p. 28
- **Category Race** group, writing · 41 min · p. 32
- **This or That Stand-Off** whole class, talking · 42 min · p. 36

If the class is loud

- Switch to a quiet single activity: Quiet Reading, Fifty-Word Summary, Finish the Story and Math Menu. Nobody needs to move.
- In the scored games (Brain Teaser Tournament, Category Race and This or That Stand-Off), the scoring keeps the class honest.
- If an activity is not working, stop it and switch. Every activity can start at any point in the period.
- The games are optional: a fun way to end the class or to use extra time.



Which activity when?

- The same activity in every period is fine: each class sees it once. The lesson plan (next page) lists all 9.
- First thing in the day, or a class that needs to settle: start with a quiet single activity.
- After lunch or with a restless class: a group activity uses the energy.
- Short period? These fit: Draw and Pass (33 min) and one passage of Quiet Reading (about 25 min).

Before you leave

Please fill in the How It Went page at the back. It takes two minutes and I read every word. Thank you!





Lesson Plan

Filled in for today: 9 activities, 33 to 45 minutes each. Write the time of each period you use.

ACTIVITY	PLAN	PAGE
Quiet Reading Quiet single · about 45 min Time ____ : ____ to ____ : ____	<ul style="list-style-type: none"> One passage and its question sheet per student; fast finishers take the other Silent reading and answering, about 20 minutes per passage Read the answers out from the key, or collect for me 	p. 7
Fifty-Word Summary Quiet single · about 45 min Time ____ : ____ to ____ : ____	<ul style="list-style-type: none"> Hand out the article, the notes sheet and the summary sheet Read, take two-column notes, figure out the words, then write a summary of exactly 50 words Check the note and word answers from the key; collect the summaries 	p. 12
Finish the Story Quiet single · about 42 min Time ____ : ____ to ____ : ____	<ul style="list-style-type: none"> Read the six openers out loud once; students pick one Three planning boxes first, then 25 minutes of silent writing Collect the sheets for me. Nothing to grade 	p. 16
Math Menu Quiet single · about 45 min Time ____ : ____ to ____ : ____	<ul style="list-style-type: none"> Three sheets on the desk: A Color by Answer, B Number Mazes, C Word Problems Students choose one, work alone in silence, swap it when done Check against the keys on the script, or collect for me 	p. 19
Draw and Pass Quiet group · about 33 min Time ____ : ____ to ____ : ____	<ul style="list-style-type: none"> Groups of 6, one sheet each, pencils, total silence Write a sentence, pass, draw it, fold, pass, guess it. Call every pass Reveal the chains at the end. Two rounds fit a period 	p. 23
Brain Teaser Tournament Group or single · about 43 min Time ____ : ____ to ____ : ____	<ul style="list-style-type: none"> Teams of 3 or 4 with one answer sheet, or the puzzle sheet alone Read each riddle twice, one minute to answer, 1, 2 or 3 points by round Every answer is on the key. The key settles arguments 	p. 25
The Open House Mix-Up Team logic · about 40 min Time ____ : ____ to ____ : ____	<ul style="list-style-type: none"> Teams of 3 or 4, one case file and one grid per team Practice puzzle together from the script, then the case on their own Teams hand in their answer; check it against the key and reveal 	p. 28
Category Race Group, writing · about 41 min Time ____ : ____ to ____ : ____	<ul style="list-style-type: none"> Groups of 4 or 5, each student plays alone, one sheet each Say the letter, 3 minutes to write, then the group checks: unique answer = 1 point Six letters on the script plus a tiebreaker 	p. 32
This or That Stand-Off Whole class, talking · about 42 min Time ____ : ____ to ____ : ____	<ul style="list-style-type: none"> Write A and B on the board; everyone stays seated Read a pair, everyone circles, count hands, one 30-second speaker per side, count again Most votes on the second count wins the round. You count and time 	p. 36

Fast finishers

Any quiet single activity can follow any other activity: Quiet Reading (p. 7), Fifty-Word Summary (p. 12), Finish the Story (p. 16) and Math Menu (p. 19).

Collect / leave for me

.....

SUBSTITUTE BINDER

High School Sub Plans - One Day - Any Subject

Teacher _____
Room _____
Grade and subject _____
School year _____

Everything a sub needs for today is in this binder: the schedule, the class list, a filled-in lesson plan, and 9 one-period activities that run from the printout alone. Each one has a script, a Read This Out box and its own answer key, so the sub never needs to know the subject.

- Quiet Reading
- Fifty-Word Summary
- Finish the Story
- Math Menu
- Draw and Pass
- Brain Teaser Tournament
- The Open House Mix-Up
- Category Race
- This or That Stand-Off



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High School Sub Plans, One Day



Important Information

The page the sub reads first. Fill it in once and keep it current.

People to call

Office _____
Teacher next door _____
Nurse _____
Principal / admin _____
Tech help _____

Emergency procedures

Fire - exit and meeting point _____
Lockdown _____
Severe weather _____
Medical _____
Where the first aid kit is _____

Helpful students

Students who need extra support

Where things are

Attendance / how to take it _____
Paper, pencils, supplies _____
Hall passes _____
Copper, if the sub may use it _____

Class routines

Start of class _____
Bathroom _____
Phones _____
End of class _____

Seating and groups

Seating chart is _____
Groups for group work _____
Students who should not sit together _____

Technology and passes

Laptops or tablets: allowed when _____
Computer or board login _____
Students who leave the room (time, why) _____

Anything else today

Did this binder work well for your class? A quick review helps other teachers find it and earns you TpT credits. Thank you!

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Important Information



Schedule of the Day

Write the times in. Cross out or rename any period to match the school's day, then write the activity for each class.

TIME	PERIOD	CLASS / ROOM	ACTIVITY AND PAGE
_____ to _____	Homeroom / attendance		
_____ to _____	Period 1		
_____ to _____	Period 2		
_____ to _____	Break		
_____ to _____	Period 3		
_____ to _____	Period 4		
_____ to _____	Lunch		
_____ to _____	Period 5		
_____ to _____	Period 6		
_____ to _____	Period 7		
_____ to _____	Dismissal		

The activities

ACTIVITY	WHAT IT PRACTICES	STYLE	TIME	PAGE
Quiet Reading	close reading of literary and informational text, citing evidence, making inferences	Quiet single	45 min	p. 7
Fifty-Word Summary	two-column note-taking, academic vocabulary in context, writing an objective summary	Quiet single	45 min	p. 12
Finish the Story	planning and writing a short narrative with a clear conflict and resolution	Quiet single	42 min	p. 16
Math Menu	solving linear, exponent and quadratic equations, systems and slope, primes and perfect squares, percent change, interest, the Pythagorean Theorem and probability	Quiet single	45 min	p. 19
Draw and Pass	expressing an idea precisely in words and in pictures, interpreting someone else's meaning	Quiet group	33 min	p. 23
Brain Teaser Tournament	logical reasoning, wordplay and number sense, reaching a team decision	Group or single	43 min	p. 25
The Open House Mix-Up	deductive reasoning, organizing information in a logic grid, testing ideas against evidence in a team	Team logic	40 min	p. 28
Category Race	vocabulary, spelling and quick recall of words across subjects	Group, writing	41 min	p. 32
This or That Stand-Off	building an argument with reasons, speaking persuasively, weighing other points of view	Whole class, talking	42 min	p. 36

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Schedule of the Day



Class List and Dismissal

Names, what a sub must know, and how every student goes home. Check here at the start and gone at the end.

#	STUDENT NAME	NOTES (ALLERGIES, NEEDS, HELPFUL, LEAVES EARLY)	HOME	BUS # / PICKED UP BY / PROGRAM	HERE	GONE
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					☐	☐

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Class List and Dismissal



How It Went

For you to leave for me. Two minutes: check the boxes and go.

Today

Date _____ Period(s) _____
Activities used _____
Sub name _____

The class

- ☐ Great, no problems
- ☐ Fine, a little loud
- ☐ Hard work, see notes
- ☐ Finished the activity
- ☐ Stopped early (time) _____
- ☐ Used a second activity _____

Stars of the day

Students who helped, led a group well, or were a good sport.

Work collected

Notes

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How It Went



Finish the Story

Circle your opener. Fill in the first lines before you write a single sentence of the story.

Finish the Story

1 The email arrived at 3:07 a.m. and was addressed to me by a name I had not used in 76 years.

2 Everyone in town agreed that the bridge had been closed since the flood. Nobody could explain the fresh tire tracks.

3 The scholarship letter said I had been accepted. I had never applied.

4 My grandfather left me a key, a map, and a single instruction: do not go alone.

5 The app was supposed to predict the weather. This morning it predicted me.

6 By the time the lights came back on, one of the twelve jurors was missing and nobody had heard the door






WHO IS IN IT? (1 OF 3 CHARACTERS)

WHAT DOES WHOING?

HOW DOES IT END?

Name

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Opener number

Back to Story Planning sheet

3. Finish the Story, 42 min



Brain Teaser Tournament

Write your answer on the line. Round 1 = 1 point, Round 2 = 2 points, Round 3 = 3 points.

Brain Teaser Tournament



Round 1: Warm Up

1 pt

<p>1. What can travel around the world while staying in a corner?</p> <p>2. What has a head but no horses, knees but no knees, and what has a tail, but that's not what's in my father's son. Who is it?</p> <p>3. What has claws but no horses, knees but no knees, and what has a tail, but that's not what's in my father's son. Who is it?</p> <p>4. What has a thumb and four fingers but is not a hand?</p> <p>7. What can fit in a room but cannot open a space?</p>	<p>2. The more you take, the more you leave behind. What are they?</p> <p>4. What breaks but never falls, and what falls but never breaks?</p> <p>6. I am always in front of you but cannot be seen. What am I?</p> <p>8. What has many legs but cannot open a single door?</p>
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Round 2: Think Harder

2 pt

<p>1. A man looks in a pocket and says: Brothers and sisters I have none, but that man's father is my father's son. Who is the person?</p> <p>2. If you have 3 apples and you take away 2, how many do you have?</p> <p>3. Which is heavier: 100 pounds of bricks or 100 pounds of feathers? Are they as big as you?</p> <p>4. I am a three digit number. My tens digit is 4. My ones digit is my hundreds digit. My hundreds digit is eight less than my tens digit. What am I?</p>	<p>10. How many times can you subtract 5 from 23?</p> <p>12. A ball and a bat both cost \$1.10 together. The bat costs \$0.10 more than the ball. How much is the bat?</p> <p>14. What is next: 1, 1, 2, 3, 5, 8, 13, ...?</p> <p>16. A small circle's top is up 1 foot above each day, and rolls 2 feet each day. On which day does it reach the top?</p>
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Round 3: Show Off

3 pt

<p>17. You have two boxes that each take exactly 80 minutes to load, but, interestingly, how do you measure 40 minutes?</p> <p>18. If I take 3 minutes 5 minutes to make 100 machines, how long does it take 100 machines to make 100 machines?</p> <p>19. Encourage the letters of LITERS to make another word. Give the word.</p> <p>20. In a room of 100 people, about how many B's are there? What birthday: 9%, 25%, or 50%?</p>	<p>13. What is the smallest positive number it is divisible by 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, 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, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100?</p> <p>15. A clock shows 3:10. What's the angle between the hour hand and the minute hand?</p> <p>21. What English letter keeps the same pronunciation when you multiply it by the half itself?</p> <p>24. What is the next letter: Q, T, T, F, F, S, E, S, ...?</p>
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Name on back:

Teacher's name: _____

Class School School Year: _____

Score: _____

Teacher's name: _____

6. Brain Teaser Tournament, 43 min



This or That Stand-Off

Circle a or B right away. After the speakers, check the box if you changed your mind. Changing your mind doesn't count in the game.

Student sheet

This or That Stand-Off

#	A	B	PICK	CHANGED	#	A	B	PICK	CHANGED
1	the future	Change the past	☐	☐	13	Learn every language	Play every instrument	☐	☐
2	Work alone	Work in a team	☐	☐	14	Travel to the past for a day	Travel to the future for a day	☐	☐
3	Live in a big city	Live near the ocean	☐	☐	15	Be the coach	Be the star player	☐	☐
4	Be famous	Have lots of friends	☐	☐	16	Make homework, no homework	Make tests, no homework	☐	☐
5	Be nervous	Be lively	☐	☐	17	Live without a phone	Live without a car	☐	☐
6	A year without money	A year without friends	☐	☐	18	Have a robot do your homework	Have a robot do your homework	☐	☐
7	Morning classes	Afternoon classes	☐	☐	19	Summer homework	Winter homework	☐	☐
8	Explore space	Explore the deep sea	☐	☐	20	Be the hero	Be the underdog	☐	☐
9	Always say what you think	Always keep what others think	☐	☐	21	Ask to apologize	Never need to say sorry	☐	☐
10	Be the best at one thing	Be the best at everything	☐	☐	22	Ask with no regrets	Ask with no regrets	☐	☐
11	Watch social media every day	Never watch TV news	☐	☐	23	Start your own business	Get the dream job	☐	☐
12	Take the ocean now	Take it in a month	☐	☐	24	Be remembered	Be understood	☐	☐



The best reason I heard

Pick one round. Write the best reason a speaker gave for the side you did NOT pick.

Name _____

Wrote my side won _____

Wrote the other side won _____

9. This or That Stand-Off, 42 min



Quiet Reading

Sub script and answer keys

One period • single • silent

This activity practices: close reading of literary and informational text, citing evidence, making inferences

Set up (2 minutes)

- Two passages, one fiction and one nonfiction, each with a question sheet. Hand out one passage and its questions per student. Fast finishers get the other one.
- Students read and answer alone, in silence. Twenty minutes is plenty for one passage.
- Go through the answers out loud at the end, or collect the sheets for me.

Read this out

"Read the passage once all the way through, then read the questions, then go back to the text to find the answers. Every answer is in the passage. Questions 1 to 6 are multiple choice: circle one letter. Questions 7 and 8 need a sentence or two. Silent reading until I say stop."

The Archive at Fennick Street

FICTION

- Why was Tomas told not to read the documents?
B: Reading would make the job take far too long
- What makes the 1974 document stand out to Tomas?
C: It is a handwritten letter among water bills
- How does Tomas find the other letters?
B: He searches the scans for a repeated phrase
- According to Abigail Orr, what does the filing system do with misfiled documents?
C: Hides them so well they are never found
- Why does Abigail say she is "writing for the search bar"?
A: She expects future technology to make her notes findable
- What does Tomas do at the end of the passage?
C: Adds a letter of his own to the archive
- Explain why Tomas finishes his bundle before writing his own note. Use the text.
Any answer grounded in the text: the passage says he finished the bundle because that was the job; he respects the work and the system even while bending the rule; it mirrors Abigail, who did her job and left notes on the side.
- Abigail wrote only about ordinary days. Why might those be worth preserving? Give a reason that uses the passage.
Any reasonable answer, e.g. the ordinary details (the pigeon, the boiler, the oranges) are what official records leave out; she believed a future reader with a search bar would value the texture of daily life; they are a way of being remembered.

Why Cities Are Hotter Than the Countryside

NONFICTION

- What is the main cause of the urban heat island effect, according to the passage?
B: The materials and shape of cities
- Why does a grassy field stay cooler than a parking lot?
C: Water evaporating from plants and soil carries heat away
- What is an "urban canyon"?
B: A street between tall, closely spaced buildings
- When is the heat island effect strongest?
B: On calm, clear nights
- What does the passage say about neighborhoods with the least tree cover?
B: They are often the poorest and can be much hotter
- Which of these is NOT listed as a way cities have reduced temperatures?
C: Building taller towers
- Explain, using the passage, why tall buildings make nights hotter, not just days.
At night the walls block the ground's view of the cold sky, so heat that would radiate upward and escape is trapped near the street; during the day the same walls catch and absorb reflected sunlight.
- The last paragraph says the challenge is not knowing what to do. What does the author say the real challenge is?
Choosing to act, and doing it in the places that need it most (the hottest, least leafy, often poorest neighborhoods) before the next heat wave.

Timing

Set up 2 min • first passage 20 min • second passage, or finish the first, 15 min • answers out loud 8 min. **About 45 minutes.**
For questions 7 and 8 accept any answer that uses the text; the key gives an example, not the only wording.



A Backup Copy for the World's Crops

Informational article

Fifty-Word Summary

Read the whole article once before you start your notes.

Most people never think about where seeds come from. Farmers buy them, plant them and often save some for the next season. Yet the variety of crops that humans depend on is more fragile than it looks. A storm, a war or a broken freezer can wipe out a seed collection that took generations to build. For that reason, scientists and governments decided that the world's seeds needed something most computer users already have: a backup copy.



That backup is the Svalbard Global Seed Vault, which opened in 2008 on the island of Spitsbergen, part of Norway's Svalbard archipelago far to the north of the Norwegian mainland. From the outside there is little to see: a narrow concrete entrance sticks out of a snowy mountainside. Behind the door, a long tunnel leads into the mountain to the rooms where the seeds are stored.

The location was chosen with care. Svalbard is remote, cold and quiet, and the vault sits high on the mountain, well above the sea. Inside, cooling machines keep the seed samples at about minus 18 degrees Celsius, a temperature at which seeds can stay alive for many years. The mountain adds a second layer of protection. The rock around the vault is permafrost, ground that stays frozen all year, so if the power ever failed, the seeds would still stay cold.

The vault does not replace the gene banks that already exist. Countries, universities and research centers around the world run their own gene banks, where they store, study and share seeds. Svalbard holds duplicate samples of those collections. Each gene bank that sends seeds keeps ownership of them, and only that gene bank can ask for them back. Norway looks after the building, but it does not own what is stored inside. In this way, the vault works like a safe deposit box at a bank: the depositors trust it to protect their property, not to use it.

That trust was tested in 2015, when the vault handled its first withdrawal. A research center that studies crops for dry regions had been based near Aleppo, Syria. When war made the area unsafe, the center moved its work to other countries and could no longer use the seed collection it had built in Syria. It asked for the backup samples it had sent to Svalbard, planted them at its new sites and grew fresh seeds from the harvest. Later, it sent new samples back to the vault to rebuild its backup.

Why go to so much trouble? Crop diversity works like insurance. An old variety of wheat or beans might seem unimportant today, but it could carry the trait that helps a future crop survive drought, heat or a new disease. Once a variety disappears completely, no amount of money can bring it back.

Even the vault is not perfectly safe. Some years after it opened, during an unusually warm and wet period, water leaked into the entrance tunnel. It never reached the seeds, but Norway later carried out work to improve the tunnel and keep water out. Today the vault holds well over a million seed samples from gene banks around the world. The people who look after it hope that most of those samples will never need to leave. A backup, after all, does its best work when nobody has to use it.



The Open House Mix-Up Case file

Read the story. Every clue is true. Solve the whole grid, then answer the case question.

The Open House Mix-Up

Last Thursday the school held its Open House for families. Five student volunteers, Amara, Theo, Nadia, Jin and Rosa, each arrived at a different time (4:00, 4:15, 4:30, 4:45 or 5:00) to set up a different room: the gym, the library, the cafeteria, the music room or the computer lab. On the way in, each one signed out a different item from the front office: a camera, an extension cord, a stapler, a clipboard or a speaker.

By Friday morning every item was back on its shelf except the speaker. Mr. Okafor, the office manager, wants to know who had it and where to look. The sign-out sheet got wet in the rain, and only the clues below can still be read.



Amara



Theo



Nadia



Jin



Rosa

The clues

- The student who set up the gym arrived at 4:00.
- Jin arrived after Theo.
- The student who signed out the camera arrived exactly 15 minutes after Jin.
- Amara did not sign out the speaker or the extension cord.
- Exactly one of these is true: Theo signed out the extension cord, or Theo set up the library.
- The student who set up the library arrived later than the student who set up the computer lab.
- Rosa arrived after Amara.
- The speaker was signed out either by the student who set up the cafeteria or by the student who arrived at 4:00.
- Nadia did not sign out the camera or the speaker.
- The student who set up the music room arrived later than Rosa.
- Jin did not sign out the stapler or the speaker.

The case question: Who signed out the speaker, and which room should Mr. Okafor search?

Fast teams: the bonus question is on the answer slip.

Warm-up: The Study Group

Elena, Sam and Marcus each brought one snack to a study group: pretzels, grapes or muffins.

- Elena did not bring the grapes or the muffins.
- Sam did not bring the grapes.

X = no. Circle = yes. One circle in every row and column.

	pretzels	grapes	muffins
Elena			
Sam			
Marcus			



Math Menu A Color by Answer

Solve every box (find x , find the slope, or evaluate) and write the answer small in the corner. Then color each box by its answer. A picture appears.

Math Menu

1 red 2 yellow 3 green 4 blue

Other colors? Write them here: 1 _____ 2 _____ 3 _____ 4 _____. No colors? 1 = shade solid, 2 = leave blank, 3 = dots, 4 = stripes.

$4(x+4)=32$	$x+y=8$ $x-y=-2$ $x=?$	$3^x=27$	$2x-8=-2$	$2^x=8$	$x^2-9x+18=0$, smaller x	$4x+9=21$	$3^x=27$	$3(x+1)=12$	$3^x=81$
$x^2-8x+15=0$, smaller x	$x+y=6$ $x-y=-2$ $x=?$	$2^x=4$	$4(x+5)=28$	$3(x+2)=12$	$2^3 \div 2^2$	$4x-10=-2$	$x+y=3$ $x-y=1$ $x=?$	$2(x+3)=10$	slope of $(0,1)(3,10)$
$x^2-9x+18=0$, smaller x	$f(x)=2x-5$ $f(x)=-1, x=?$	slope of $(0,1)(2,3)$	$3(x+4)=15$	$f(x)=3x-5$ $f(x)=1, x=?$	$\sqrt{100} \div 5$	$2x-6=-4$	$x+y=4$ $x-y=-2$ $x=?$	$2x+3=7$	$2^x=8$
$2x+9=15$	$4(x+4)=20$	$2(x+4)=10$	$\sqrt{25} \div 5$	$f(x)=4x-2$ $f(x)=2, x=?$	$3^4 \div 3^4$	$5x+7=12$	$\sqrt{9} \div 3$	$6x+6=12$	$2^x=8$
$3x+5=14$	slope of $(0,5)(2,7)$	slope of $(0,2)(2,4)$	$x^2-6x+5=0$, smaller x	$x+y=4$ $x-y=-2$ $x=?$	$x^2-3x+2=0$, smaller x	$3(x+4)=15$	$f(x)=4x-3$ $f(x)=1, x=?$	$ x-10 =9$ $x < 10$	$x^2-9x+18=0$, smaller x
$3(x+4)=21$	$ x-4 =2$ $x < 4$	$\sqrt{25} \div 5$	$x^2-6x+5=0$, smaller x	$x^2-4x+3=0$, smaller x	$3^x=3$	$2^x=2$	$6x+7=13$	$f(x)=3x-1$ $f(x)=5, x=?$	$3x+4=13$
$3^5 \div 3^4$	$x+y=4$ $x-y=0$ $x=?$	$x+y=5$ $x-y=-1$ $x=?$	$5x-7=-2$	$x+y=6$ $x-y=-4$ $x=?$	$3x-6=-3$	$3^x=3$	$\sqrt{144} \div 6$	$2^x=4$	$3^x=27$
$f(x)=4x-2$ $f(x)=10, x=?$	slope of $(0,1)(1,3)$	$2^x=4$	$ x-10 =8$ $x < 10$	$x+y=5$ $x-y=-3$ $x=?$	$5x+3=8$	$6x+7=19$	$4(x+5)=28$	$f(x)=3x-6$ $f(x)=0, x=?$	$4(x+5)=32$
$4(x+5)=32$	$f(x)=4x-6$ $f(x)=2, x=?$	$2^x=4$	$4x-6=2$	$x^2-7x+10=0$, smaller x	$x^2-8x+12=0$, smaller x	$3x-7=-1$	$x^2-9x+14=0$, smaller x	$f(x)=2x-4$ $f(x)=0, x=?$	$4x+3=15$
$4x+3=19$	$x^2-8x+15=0$, smaller x	$2^x=8$	$\sqrt{324} \div 6$	$5x+4=19$	$5x-10=5$	$x^2-7x+12=0$, smaller x	$3x-9=0$	$ x-6 =3$ $x < 6$	$x^2-10x+24=0$, smaller x

Name _____

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Math Menu A · Color by Answer



Brain Teaser Tournament Puzzle sheet

Write your answer on the line. Round 1 = 1 point, Round 2 = 2 points, Round 3 = 3 points.

Brain Teaser Tournament



Round 1: Warm Up

1 PT

1. What can travel around the world while staying in a corner?
.....
2. The more you take, the more you leave behind. What are they?
.....
3. What has cities but no houses, forests but no trees, and water but no fish?
.....
4. What breaks but never falls, and what falls but never breaks?
.....
5. What has a thumb and four fingers but is not alive?
.....
6. I am always in front of you but cannot be seen. What am I?
.....
7. What can fill a room but takes up no space?
.....
8. What has many keys but cannot open a single door?
.....



Round 2: Think Harder

2 PT

9. A man looks at a portrait and says: Brothers and sisters I have none, but that man's father is my father's son. Who is in the portrait?
.....
10. How many times can you subtract 5 from 25?
.....
11. If there are 3 apples and you take away 2, how many do you have?
.....
12. A bat and a ball cost \$1.10 together. The bat costs \$1.00 more than the ball. How much is the ball?
.....
13. Which is heavier: 100 pounds of rocks or 100 pounds of feathers, if the feathers are in a bigger bag?
.....
14. What is next: 1, 1, 2, 3, 5, 8, 13, ...?
.....
15. I am a three-digit number. My tens digit is five more than my ones digit. My hundreds digit is eight less than my tens digit. What am I?
.....
16. A snail climbs 3 feet up a 10-foot wall each day and slips back 2 feet each night. On which day does it reach the top?
.....



Round 3: Show Off

3 PT

17. You have two ropes that each take exactly 60 minutes to burn, but unevenly. How do you measure 45 minutes?
.....
18. What is the smallest positive number that is divisible by 1, 2, 3, 4, 5 and 6?
.....
19. If it takes 5 machines 5 minutes to make 5 widgets, how long do 100 machines take to make 100 widgets?
.....
20. A clock shows 3:15. What is the angle between the hour hand and the minute hand?
.....
21. Rearrange the letters of LISTEN to make another word. Give two.
.....
22. What English word keeps the same pronunciation when you remove four of its five letters?
.....
23. In a room of 23 people, about how likely is it that two share a birthday: 5%, 25%, or 50%?
.....
24. What is the next letter: O, T, T, F, F, S, S, E, ...?
.....

Name or team Score



The Archive at Fennick Street Fiction

Read the whole passage before you look at the questions.

Quiet Reading

The job was supposed to be simple: digitize the Fennick Street archive before the building was sold, box by box, and do not read anything. Tomas had been told this twice, once by the city clerk who hired him and once by the sign someone had taped above the scanner. He understood the reasoning. Forty thousand documents at thirty seconds each was already a summer. Forty thousand documents read by a curious nineteen-year-old was a career.



He lasted nine days. On the tenth, feeding a bundle of 1974 water bills into the machine, he noticed that one of them was not a water bill. It was a letter, handwritten, folded twice, and addressed to nobody. The first line read: "If you are reading this, the filing system has failed, which means it is later than I hoped."

Tomas did not read the rest. Not then. He scanned it with the water bills, logged the batch, and went home. But he could not stop thinking about the sentence, and the next morning he did something he was fairly sure was not allowed: he searched the scanned archive for the phrase "the filing system." There were eleven more letters. They were scattered across three decades and a dozen departments, each one tucked inside something dull, each one beginning with the same line.

Read in order, they told a small story. The writer was a clerk named Abigail Orr who had worked in the building from 1961 until it closed. She had noticed, early on, that documents filed under the wrong heading were never found again. The system, she wrote, did not lose things; it hid them perfectly. So she began leaving notes in the places the system would hide, not about anything important, but about ordinary days: the pigeon that nested in the light fixture, the winter the boiler failed, the colleague who brought oranges every Friday for thirty years and never said why. "Someone will digitize all this eventually," the ninth letter said. "They will have a search bar. I am writing for the search bar."

Tomas sat with that for a while. Then he finished the bundle he was working on, because that was the job, and after that he wrote a short note on a blank sheet, folded it twice, and placed it in the next box of water bills. It began with the same line. He did not know who would find it, or when, or whether the building would even exist. But he knew the system, and he trusted it to hide the note perfectly, and he trusted that someone, eventually, would search.

In the full binder

A whole high school sub day, planned and ready to print.

38 pages in color and ink-saver
B&W, US Letter and A4

9 activities of 33 to 45 minutes, one
per class period

7 front pages: note to the sub,
lesson plan, schedule, class list

0 things to prep, and no tech: print
and go

Use it your way

- A sudden sick day: emergency sub plans that are ready before you need them.
- Any class or period, in any subject: every activity brings its own content.
- Your sub tub: print it once and keep it all year.
- Your own no prep day: teach it yourself when you need a break from planning.

Thank you! If this works for your class, a quick review helps other teachers find it, and earns you TpT credits.



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