



Middle School Math Sub Plans, 2 Weeks

Two complete week binders of middle school math, grades 6 to 8. Every day has individual work and a team task, and every task has a "say this" script.

PREVIEW

What is included

- Week 1 binder (64 pages) and Week 2 binder (66 pages): 130 pages
- 26 front pages: binder cover, important information, note to the sub, the week plan filled in, schedule, set index, class list, how it went, Monday opener
- 20 solo blocks (10 math sets, 10 calm blocks) and 10 team tasks for groups of four
- A "say this to the class" script for all 42 tasks: 2 or 3 sentences the sub reads out
- A core task and a ★ challenge in every math set and team task
- 10 optional games, each on that day's math lesson, a fun way to end the class
- Answer keys for everything; color and ink-saver B&W, US Letter and A4

How it works

1. Leave both binders out. Each has its own filled-in plan with page numbers.
2. The sub reads the "say this" box out, then runs the day's math set in every period; students work on their own. Everyone does the core task, early finishers go on to the ★ challenge.
3. The calm block fits any gap, the team task fills a block period or extra time, the game the last 15 minutes.
4. No prep and no tech: print and go.

The 10 days: a math set, a team task and a game each day

1. Day 1: Math: Ratios, Rates and Percent · Team task: The Number Line-Up **Whiteboard Quiz Game**
2. Day 2: Math: Integers and Order of Operations · Team task: The Garden Plot Plan **Paper Password**
3. Day 3: Math: Fractions and Decimals · Team task: Design the Dog Park **Class Feud**
4. Day 4: Math: Area and Perimeter · Team task: Time Capsule Code **Classroom Millionaire**
5. Day 5: Math: Data and Graphs · Team task: The Calculator Debate **Mystery Box**
6. Day 6: Math: Unit Rates and Proportions · Team task: Snack Order Showdown **Whiteboard Quiz Game**
7. Day 7: Math: Expressions and the Distributive Property · Team task: Expression Match-Up **Paper Password**
8. Day 8: Math: One-Step Equations · Team task: Locker Combination Relay **Class Feud**
9. Day 9: Math: Area of Triangles and Polygons · Team task: Plaza Tile Planner **Classroom Millionaire**
10. Day 10: Math: Mean, Median, Mode and Range · Team task: Class Survey Lab **Mystery Box**

What this preview shows: the note to the substitute, the Week 1 plan, more front pages, one page of every daily part, a full math set with its answer key, a calm block, a team task, the game types and one ink-saver page. Every product page is watermarked. The full product has 130 pages.



Note to the Substitute

Grades 6 to 8 · five days · every set runs from the printout alone

Thank you for covering my classes this week

Everything you need is in this binder. The front pages (important information, weekly schedule, class list) are filled in for this week. After them come the work sets, one per day: **Math 1** is Monday's set, **Math 2** is Tuesday's, and so on to **Math 5** on Friday. Run the day's set in every period you teach that day. Each set is one period (45 to 55 minutes), stands alone, and has its own answer key at the back of the binder, so you never have to make anything up or know the subject. Every task starts with a short **Say this to the class** box under its title: read it out, and the class knows what to do and how to start.

Every student page has a core task first, then a ★ challenge. Every student does the core task. Students who finish early go on to the ★ challenge; it fills a few extra minutes, and nobody has to finish it.

After the subject sets come the shared blocks, one of each per day. The **calm block** is always allowed: for a period that runs short, a loud class, or anyone who finishes early. The **team task** fills a period on its own. The **game** is optional: a fun way to end the class, or something for extra time. Fifteen minutes, from the script.

Each day has

- One Math set (one period, core task + ★ challenge on every page)
- A calm and quiet block: a math puzzle and a self-checking practice page
- A team task for groups of four
- A paper game from the script

If the class is loud

- Set a voice level with a number, 0 to 3, and use it all week (the Day 1 opener explains it).
- Switch to the calm block. Nobody needs to move.
- Every student page has a ★ challenge, so fast finishers always have something.
- If a set is not working, stop it and use the calm block or the team task. Every set starts cold.

At the end of each day

Please fill in that day's line on the "How it went" page. It takes two minutes and I read every word.

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



This Week's Plan

Filled in for you: run the day's set in every period you teach. Keep it as it is, or use the blank schedule on the next page for your own order.

WHEN	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
Start of class	Meet Your Sub p. 11 · 15 min, every period	Attendance, voice level	Attendance, voice level	Attendance, voice level	Attendance, voice level
Main work, every period	Math 1 Ratios, Rates and Percent p. 14	Math 2 Integers and Order of Operations p. 22	Math 3 Fractions and Decimals p. 31	Math 4 Area and Perimeter p. 40	Math 5 Data and Graphs p. 49
Early finishers or a loud moment	Word Search and Quiet Practice p. 17	Term Match and Quiet Practice p. 25	Code Breaker and Quiet Practice p. 34	Word Scramble and Quiet Practice p. 43	Cross-Number and Quiet Practice p. 52
Block period or extra time	The Number Line-Up p. 19	The Garden Plot Plan p. 27	Design the Dog Park p. 36	Time Capsule Code p. 45	The Calculator Debate p. 54
Last 15 minutes (optional): a fun way to end the class, or for extra time	Whiteboard Quiz Game p. 20	Paper Password p. 29	Class Feud p. 38	Classroom Millionaire p. 47	Mystery Box p. 56

How to use this plan

- Page numbers point to the first page of each set. Copy one per student.
- The calm block is always allowed: a period that runs short, a loud class, or anyone who finishes early.
- The game is optional: a fun way to end the class, or something for extra time.

MATH SUB PLANS WEEK 1

Middle School Math, 5 Days of Print and Go Work

Teacher _____
Room _____
Grade and classes _____
Week of _____

Everything a sub needs for five days is in this binder: a filled-in weekly plan, a blank schedule, the class list, and for every day one Math set, a calm block, a team task and a paper game. Each set is one period, stands alone, and has its own answer key. Nothing needs subject knowledge, a login or a projector.



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Math Sub Plans Week 1: Middle School Math, 5 Days of Print and Go Work

Important Information

The page the sub reads first. Fill it in once you help 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 _____
Copier, if the sub may use it _____

Class routines

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

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Important information

Weekly Schedule (Blank)

Your sub enters, writes the set for each period (Monday: Math 1, Tuesday: Math 2, and so on) and the class next to each period. Cross out or remove periods to match the school day.

PERIOD / CLASS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
Period 1					
Class					
Period 2					
Class					
Period 3					
Class					
Period 4					
Class					
Period 5					
Class					
Period 6					
Class					
Period 7					
Class					

How to fill it in

- One set per period. Each set runs 45 to 55 minutes. If a period runs longer, the 30 challenges fit a few minutes, or add that day's team task.
- Same subject all day? Write the day's set in every period you teach. Planning, lunch and duty periods: cross them out.
- On Monday the opener (15 minutes) comes first in every period, then the set.
- The game is optional: put it in the last period as a fun way to end the class, or use it for extra time. The calm block goes in any gap.

Set naming

Sets are named by subject and day. Math 1 is Monday's set, Math 2 is Tuesday's, and so on to Math 5 on Friday. The set index lists every set with its minutes and page.

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Weekly schedule, blank

Class List and Dismissal

Name, what a sub must know, and how every student goes home. Copy one per class.

☐ bus (write the number) ☐ walks ☐ picked up (write who) ☐ after-school program ☐ other

★ in the notes: a student who finds the core task essay may start with the challenge.

#	STUDENT NAME	NOTES (ALLERGIES, NEEDS, HELPFUL, LEAVES EARLY)	HOME	BUS # / PICKED UP BY / PROGRAM
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 the sub/schedule. One line per day, two minutes at the end of each day. Check the boxes and go.

Monday

Sets done: _____ Class was: ☐ Great ☐ Fine ☐ Hard, see notes

Notes / stars of the day: _____

Tuesday

Sets done: _____ Class was: ☐ Great ☐ Fine ☐ Hard, see notes

Notes / stars of the day: _____

Wednesday

Sets done: _____ Class was: ☐ Great ☐ Fine ☐ Hard, see notes

Notes / stars of the day: _____

Thursday

Sets done: _____ Class was: ☐ Great ☐ Fine ☐ Hard, see notes

Notes / stars of the day: _____

Friday

Sets done: _____ Class was: ☐ Great ☐ Fine ☐ Hard, see notes

Notes / stars of the day: _____

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How it went

Meet Your Sub

Key tip: 10 minutes of the start of every period on Monday, before the set. Nothing to prepare.

Key tip: 10 minutes of the start of every period on Monday, before the set. Nothing to prepare.

Hi everyone, I am your sub for math this week, and every day has one set of math work for this period. First I will tell you a little about me and take three questions, then we read the class agreement together. Every page has a core task and a star challenge, so start with the core task and keep going when you finish.

Sub script (same routine for every class)

- Before first period, fill in the introduction sheet (next page) once. Keep it honest and short. Students read a sub in ten seconds, give them something real to read.
- Introduce yourself from the sheet, two minutes. Then hold up the "Ask the Sub" list and take three questions from hands. Three, not ten.
- Read the class agreement out loud. Ask the class to add one line of their own and write it on the board for that period. That line is theirs, they will keep it better than yours.
- Set the voice level with a number, 0 to 3 (bottom of the sheet). Say which level the set needs. Use the numbers all week.
- Start the set. "This is today's math. Do the core task first. When you finish, try the star challenge, and the calm block is always allowed."

If the class is loud

- Skip the questions, keep the agreement and the voice level.
- Start the set sooner. Leave the voice level number on the board for the whole period.

If a period has ten minutes left

- Play Math Two Truths and a Lie (rules on the class page) in groups of six. Each group picks one to share.
- Or hand out the quiet practice page from the calm block.

Monday morning checklist (before first period)

- ☐ Read the Important Information page: office number, emergency exits, the nurse.
- ☐ Check the class list for allergies, medical needs and students who leave early.
- ☐ Find today's set on the weekly schedule and count copies for every period.
- ☐ Fill in the About Your Sub sheet and pin it where the class can see it.
- ☐ Write the voice levels 0 to 3 on the board.
- ☐ Put the answer keys somewhere students cannot reach them.

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Day 1: opener, sub script

Math set, Week 1 (solo)

Math practice, Week 2 (solo)

Word problems + challenge (solo)

Calm block: math puzzle (solo)

Calm block: quiet practice (solo)

Team task, Week 2 (groups of four)

Monday opener (whole class)

Game: Quiz Game (whole class)

Game: Class Feud (whole class)



Math Set 1: Unit Rates and Proportions

Study the four worked examples, then fill in the four rate tables. Show your work for every problem.

Math • Day 1

This set reviews: unit rates from tables, better buys, telling if two ratios form a proportion, solving proportions



"Today we work on unit rates and proportions, and you work on your own for this period. A unit rate tells you how much for one, so the first step is almost always to divide. Read the four examples on page 1 before you start, and try the star challenge when a page is done."

1 Unit rate from a table

A cyclist rides 26 miles in 2 hours, 39 miles in 3 hours, 65 miles in 5 hours. Divide miles by hours in any row. Every row gives the same rate.

$$26 \div 2 = 13 \text{ miles per hour}$$

2 The better buy

A 12-ounce bag of pretzels costs \$3.00. A 20-ounce bag costs \$4.40. Find the price of one ounce in each bag.

$$\$3.00 \div 12 = \$0.25; \$4.40 \div 20 = \$0.22. \text{ The 20-ounce bag is the better buy.}$$

3 A proportion by unit rate

5 notebooks cost \$8.50. What do 7 notebooks cost? Find the cost of one, then multiply.

$$\$8.50 \div 5 = \$1.70; 7 \times \$1.70 = \$11.90$$

4 A proportion by cross products

Solve $x/12 = 15/20$. Multiply across the equal sign: the two cross products are equal.

$$20x = 12 \times 15 = 180, \text{ so } x = 180 \div 20 = 9$$

Remember

- A **unit rate** is an amount for one: miles per hour, dollars per ticket. Divide to find it.
- The **better buy** has the lower price for one unit.
- A **proportion** says two ratios are equal. In a true proportion the two cross products are equal.

Warm-up: fill in each rate table (the rate stays the same in every column)

A. Cups of rice and servings

CUPS OF RICE	2	4		10
SERVINGS	6		15	

B. Hours worked and pay

HOURS	1	3		8
PAY (\$)	14		70	

C. Gallons of gas and miles

GALLONS	2	5		12
DISTANCE (MILES)	56		196	

D. Minutes and pages printed

MINUTES	4	8		20
PAGES	10		35	

★ Challenge

Three phone plans: Plan A gives 5 gigabytes for \$20, Plan B gives 12 gigabytes for \$42, Plan C gives 8 gigabytes for \$30. Which plan has the lowest price per gigabyte? Show the unit price of each plan.



Math Set 1: Practice

Rates, better buys, proportions and solving: do every block. Show your work in the space and put the answer on the line.

Math • Day 1

A. Find the unit rate

1. 96 miles in 4 hours

2. \$27 for 6 movie tickets

3. \$7.80 for 12 eggs

4. 84 laps in 7 days

B. Which is the better buy?

1. 8 pens for \$6.00 or 12 pens for \$8.40

2. 16 ounces of juice for \$2.24 or 64 ounces of juice for \$9.60

3. 3 pounds of apples for \$4.50 or 5 pounds of apples for \$7.75

4. 24 cans for \$9.60 or 10 cans for \$3.90

C. Is it a proportion? Yes or no, and why

1. $\frac{3}{4}$ and $\frac{9}{12}$

2. $\frac{5}{8}$ and $\frac{15}{25}$

3. $\frac{4}{7}$ and $\frac{12}{20}$

4. $\frac{6}{10}$ and $\frac{9}{15}$

D. Solve each proportion

1. $\frac{x}{6} = \frac{10}{15}$

2. $\frac{4}{9} = \frac{12}{x}$

3. $\frac{7}{x} = \frac{21}{30}$

4. $\frac{x}{8} = \frac{15}{24}$

★ Challenge

Solve $\frac{3}{8} = \frac{x}{10}$. Write the answer as a mixed number.



Math Set 1: Word Problems

Six word problems. Find the unit rate first, then use it. Write the unit with every answer.

Math • Day 1

- 1 A smoothie recipe uses 3 cups of strawberries for 4 servings. How many cups are needed for 10 servings?

- 2 A train travels 168 miles in 3 hours. At that rate, how many hours does it take to travel 280 miles?

- 3 Dana earns \$93 for 6 hours of dog walking. At the same rate, how much does she earn for 10 hours?

- 4 On a map, 2 inches stand for 15 miles. Two towns are 7 inches apart on the map. How far apart are the real towns?

- 5 A school copier makes 360 copies in 8 minutes. How many minutes does it need for 1,080 copies?

- 6 A basketball player makes 18 free throws in 24 tries. At the same rate, how many would she make in 60 tries?

★ Challenge Two-step rates

- 1 Two trains leave the same station at the same time and go in opposite directions, one at 55 miles per hour and one at 65 miles per hour. How far apart are they after 3 hours?

- 2 A hose puts 12 gallons per minute into a tank, and a leak lets 4 gallons per minute out. How many minutes does it take to put 200 gallons in the tank?

- 3 Bianca folds 20 flyers per minute and Caleb folds 30 flyers per minute. Working together, how long do they take to fold 750 flyers?



Answer Keys (1 of 8)

Teacher copy. Keep these pages out of the student sets.

Math Set 1: Unit Rates and Proportions

Warm-up (missing values, left to right): A. 12, 5, 30; B. 42, 5, 112; C. 140, 7, 336; D. 20, 14, 50

A. Unit rate: 1. 24 miles per hour; 2. \$4.50 per ticket; 3. \$0.65 per egg; 4. 12 laps per day

C. Proportion? 1. yes ($3 \times 12 = 36$, $4 \times 9 = 36$); 2. no ($5 \times 25 = 125$, $8 \times 15 = 120$); 3. no ($4 \times 20 = 80$, $7 \times 12 = 84$); 4. yes ($6 \times 15 = 90$, $10 \times 9 = 90$)

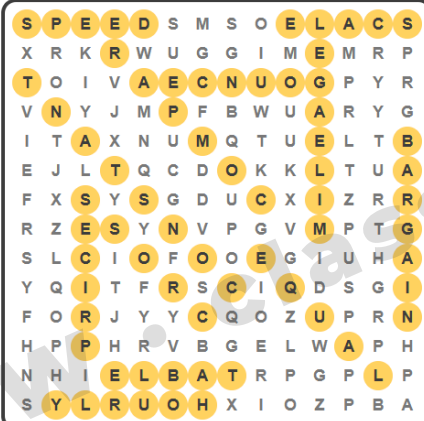
B. Better buy: 1. 12 pens (\$0.70 vs \$0.75 per pen); 2. 16 ounces of juice (\$0.14 vs \$0.15 per ounce); 3. 3 pounds of apples (\$1.50 vs \$1.55 per pound); 4. 10 cans (\$0.39 vs \$0.40 per can)

D. Solve: 1. $x = 4$; 2. $x = 27$; 3. $x = 10$; 4. $x = 5$

Word problems: 1. 7.5 cups; 2. 5 hours; 3. \$155; 4. 52.5 miles; 5. 24 minutes; 6. 45 free throws

Challenge, page 1: Plan B, at \$3.50 per gigabyte (Plan A \$4.00, Plan C \$3.75). **Challenge, page 2:** $x = 3 \frac{3}{4}$ ($8x = 30$, and $30 \div 8 = 3 \frac{3}{4}$). **Challenge, page 3:** 1. 360 miles (each hour they move 120 miles apart); 2. 25 minutes (the tank gains 8 gallons per minute); 3. 15 minutes (together 50 flyers per minute)

Calm block, Day 1: word search and quiet practice



Done early examples: answers vary; accept any example that fits the word.

Quiet practice (Rates and Proportions): 1. 18; 2. \$0.85; 3. 3; 4. 8; 5. 40; 6. \$0.23; 7. \$9.00; 8. 90. Extra bank answers: \$0.25, 36. In my own words: answers vary; accept any first step that fits the problem.



Calm Block, Day 1: Word Search

Find all 12 rate and proportion words. Every direction, including backward. Pencils only, voices at 0.

Calm • Day 1



SAY THIS TO
THE CLASS

"This is quiet time on your own, with voices at zero, and it is still math. On page 1, find twelve words about rates and proportions, then solve the eight problems on page 2. Every page 2 answer is in the answer bank, so you can check your own work."

S	P	E	E	D	S	M	S	O	E	L	A	C	S
X	R	K	R	W	U	G	G	I	M	E	M	R	P
T	O	I	V	A	E	C	N	U	O	G	P	Y	R
V	N	Y	J	M	P	F	B	W	U	A	R	Y	G
I	T	A	X	N	U	M	Q	T	U	E	L	T	B
E	J	L	T	Q	C	D	O	K	K	L	T	U	A
F	X	S	Y	S	G	D	U	C	X	I	Z	R	R
R	Z	E	S	Y	N	V	P	G	V	M	P	T	G
S	L	C	I	O	F	O	O	E	G	I	U	H	A
Y	Q	I	T	F	R	S	C	I	Q	D	S	G	I
F	O	R	J	Y	Y	C	Q	O	Z	U	P	R	N
H	P	P	H	R	V	B	G	E	L	W	A	P	H
N	H	I	E	L	B	A	T	R	P	G	P	L	P
S	Y	L	R	U	O	H	X	I	O	Z	P	B	A

BARGAIN

MILEAGE

SCALE

PRICE

SPEED

CONSTANT

TABLE

COMPARE

EQUAL

CROSS

HOURLY

OUNCE

Done early?

Pick three of the words. Write a tiny example of each one, like 3 : 4 for a ratio.

.....

.....



Team Task, Day 2: Planning Sheet

Test at least three plans. Show the math so another group could check it.

Team • Day 2

	PLAN A	PLAN B	PLAN C
Beds			
Total area (sq ft)			
Total cost			
Has a Flowers bed?			
Pounds of food			

Our final plan

Beds _____
 Total area _____ Total cost _____ Pounds of food _____

Rule check (check each one)

- ☐ Total area is 80 square feet or less
- ☐ Total cost, soil included, is \$190 or less
- ☐ At least one Flowers bed, no bed twice
- ☐ Another group member redid every area and got the same numbers

Why is this plan better than your others?

Which bed's area was hardest, and why?

★ Challenge

The principal raises the budget to \$210 and keeps every other rule. Find the best plan now: which beds, and how many pounds of food?



Game, Day 1: The Board

Tape this to the whiteboard or copy it. Cross squares off as they are played.

Game • Day 1

TABLES	UNIT RATES	SOLVE IT	MAP SCALE	STORIES
100	100	100	100	100
200	200	200	200	200
300	300	300	300	300
400	400	400	400	400
500	500	500	500	500

Scores

Team 1

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Team 2

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Team 3

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Team 4

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Team 5

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.....

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Team 6

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.....

.....



Game, Day 2: Paper Password

Sub script and math word list. 15 minutes at the end of the period, or for extra time. Optional.

Game • Day 2



SAY THIS TO THE CLASS

"For extra time, try this optional partner game: every secret word comes from today's lesson on expressions. One partner gives one-word clues and the other guesses, and fewer clues means more points."

Set up (2 minutes)

1. Pairs sit face to face. Give each pair one card page, cut into the four round cards (or folded so one card shows).
2. Partner A is the clue giver in rounds 1 and 3, Partner B in rounds 2 and 4. The guesser never sees the card.
3. Each round lasts 2 minutes. The clue giver says ONE word. The guesser gets ONE guess. Wrong: give another one-word clue.
4. After five clues without a right guess, the word scores 0 and the pair moves on. Say "Go" and "Stop" for each round.

Read this out

"Your clue is one word only. You may not say the secret word or any part of it. If the word is snowman, you cannot say snow or man. No gestures, no spelling, no rhymes. Break a rule and that word scores zero."

Scoring: guessed on clue 1 = 5 points, clue 2 = 4, clue 3 = 3, clue 4 = 2, clue 5 = 1. The clue giver circles the number on the card. After round 4, pairs add their four round totals. Highest total wins; ask pairs to call out totals over 60.

Referee calls

Two words glued together ("hotdog") count as one clue only if they make a real single word. Plurals and "-ing" forms of the secret word are not allowed. If two pairs argue about a clue, the word scores zero and they move on. The example clues below are allowed and show students what a good first clue sounds like.

Timing (15 minutes)

0:00

Set up, rules

2:00

Round 1, Partner A

4:30

Round 2, Partner B

7:00

Round 3, Partner A

9:30

Round 4, Partner B

12:00

Add totals, winners

Round 1: Partner A gives clues

TERM	example clue: part
CONSTANT	example clue: fixed
SUM	example clue: total
TWICE	example clue: double
COMBINE	example clue: merge

Round 3: Partner A gives clues

REPLACE	example clue: swap
TIMES	example clue: product
LIKE	example clue: similar
EQUAL	example clue: balanced
TICKET	example clue: concert

Round 2: Partner B gives clues

EVALUATE	example clue: plug
SIMPLIFY	example clue: shorten
FEE	example clue: charge
HALF	example clue: split
PLUS	example clue: add

Round 4: Partner B gives clues

FACTOR	example clue: multiply
VALUE	example clue: worth
NUMBER	example clue: digit
TWIN	example clue: identical
LESS	example clue: fewer



Game, Day 4: Classroom Millionaire

Sub script and the 12 questions. 15 minutes at the end of the period, or for extra time. Optional.

Game • Day 4



SAY THIS TO THE CLASS

"To end the class we can play an optional game, just for fun, where the whole class climbs twelve questions. Every question is about today's area of triangles and polygons. Each question gets a new student in the hot seat, and the class may give advice."

How it works

1. Tape up the ladder sheet. The whole class is one player. Pick a student for the hot seat (a new student for every question).
2. Read the question and the four options, then read the options again. The hot seat may listen to quiet advice, then says "final answer" and a letter.
3. Right: the class climbs one rung. Before hearing the next question, the class may vote to walk away and keep what it has.
4. Wrong: the climb ends. Rungs 4 and 8 are safe: the class keeps the last safe amount it passed.
5. Time left over? Play the questions again as a team quiz.

Three lifelines (one use each)

Ask the class: everyone shows 1, 2, 3 or 4 fingers at once for A, B, C or D. The hot seat looks, then decides.

50/50: read out the two wrong options listed under the question. Cross them off.

Phone a friend: the hot seat picks one classmate, who has 30 seconds to say what they think out loud.

"Only the hot seat's final answer counts. Shout an answer and the class loses a lifeline."

Rungs 1 to 4, rung 4 is safe

1. \$100 Which formula gives the area of a triangle?

A. $1/2 \times b \times h$ B. $b \times h$ C. $2 \times b \times h$ D. $b + h$

Answer: A. $1/2 \times b \times h$ (50/50 removes C and D)

2. \$250 Area of a parallelogram, base 7, height 6?

A. 13 B. 26 C. 42 D. 21

Answer: C. 42 (50/50 removes A and B)

3. \$500 Which part meets the base at a right angle?

A. Slant side B. Diagonal C. Vertex D. Height

Answer: D. Height (50/50 removes B and C)

4. \$1,000 Area of a triangle, base 14, height 5?

A. 70 B. 35 C. 19 D. 9.5

Answer: B. 35 (50/50 removes C and D)

Rungs 5 to 8, rung 8 is safe

5. \$2,500 Right triangle with legs 8 and 11. Area?

A. 88 B. 19 C. 44 D. 22

Answer: C. 44 (50/50 removes B and D)

6. \$5,000 Trapezoid: bases 4 and 12, height 5. Area?

A. 80 B. 40 C. 60 D. 21

Answer: B. 40 (50/50 removes C and D)

7. \$10,000 A triangle has area 24 and base 8. Height?

A. 3 B. 16 C. 12 D. 6

Answer: D. 6 (50/50 removes B and C)

8. \$25,000 Parallelogram: area 63, height 7. Base?

A. 9 B. 4.5 C. 18 D. 56

Answer: A. 9 (50/50 removes C and D)

Rungs 9 to 12

9. \$50,000 7 by 5 rectangle plus a triangle, base 7, height 4. Area?

A. 63 B. 35 C. 14 D. 49

Answer: D. 49 (50/50 removes B and C)

10. \$100,000 Kite: two triangles share a base of 12, heights 3 and 5. Area?

A. 96 B. 48 C. 20 D. 30

Answer: B. 48 (50/50 removes C and D)

11. \$500,000 Trapezoid: area 56, bases 5 and 9. Height?

A. 8 B. 4 C. 16 D. 3.5

Answer: A. 8 (50/50 removes B and D)

12. \$1 MILLION Hexagon: two trapezoids, bases 4 and 8, height 3. Area?

A. 18 B. 72 C. 36 D. 48

Answer: C. 36 (50/50 removes A and D)

If the class misses

Wrong on rung 1 to 4

class keeps \$0

Wrong on rung 5 to 8

class keeps \$1,000

Wrong on rung 9 to 12

class keeps \$25,000

Walk away after rung n

class keeps rung n



Math Set 2: Expressions and the Distributive Property

Math • Day 2

Read the four worked examples, then match the words to the expressions below.

This set reviews: parts of an expression, writing and evaluating expressions, the distributive property, combining like terms



"Today is all about expressions and the distributive property, and you work alone this period. When you distribute, the number outside the parentheses multiplies every term inside, not just the first one. Start with the four examples on page 1, then the match, and go on to the star challenge when a page is done."

1 The parts of an expression

In $5x + 3y + 8$ the **terms** are $5x$, $3y$ and 8 . The number in front of a letter is its **coefficient**. A number alone is the **constant**.

coefficients 5 and 3, constant 8

2 Evaluate an expression

Find $4a - 2b$ when $a = 6$ and $b = 5$. Put each number in place of its letter, then use the order of operations.

$$4(6) - 2(5) = 24 - 10 = 14$$

3 The distributive property

$3(2x + 7)$: multiply the 3 by EACH term inside the parentheses, not only the first one.

$$3 \times 2x + 3 \times 7 = 6x + 21$$

4 Combine like terms

$7n + 4 + 2n - 9$: add the n terms together and the plain numbers together. Keep each sign with its term.

$$7n + 2n = 9n \text{ and } 4 - 9 = -5, \text{ so } 9n - 5$$

Remember

- **Like terms** have the same letter: $4a$ and $2a$ are like terms, $4a$ and $4b$ are not.
- A number right next to a letter or a parenthesis means multiply: $6x$ is 6 times x .
- Two expressions are **equivalent** when they give the same value for every number you put in.

Warm-up: match the words to the expression (write the letter in the box)

1 8 more than a number n	☐	A $2(n + 8)$
2 a number n decreased by 8	☐	B $n - 8$
3 8 times a number n	☐	C $8n$
4 a number n divided by 8	☐	D $2n - 8$
5 8 less than twice a number n	☐	E $n \div 8$
6 twice the sum of a number n and 8	☐	F $n + 8$



Challenge

Error hunt: Dylan wrote $4(3x - 5) = 12x - 5$. What did he do wrong? Write the correct answer.

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