middle school mathematics

REVIEW STATIONS

Grades 6-8

TOPICS:

Evaluating Expressions

Order of Operations

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HOW CAN I USE THIS RESOURCE?

- **Cut out and laminate stations so you can use them every class period and every year!**
- **I typically have students work in partners, but BOTH of them have to fill out the student information sheet, showing work. Students could also work individually. Working with more than one person gets too crowded, and some students skate by without participating at all.**
- **Each group will start at a station. They will be given a certain amount of time to complete each task. At the end of the time, they will switch to the next station.** ***Example:*** **If a student starts at station 1, they will go to station 2. If they are at station 20, they will go to station 1.**
- **There should never be more than two people at a station (unless you have more than 40 students…).**
- **Encourage (or require) students to write down EVERY problem so that if they run out of time on one station, they can finish earlier problems at another station.**
- **Give students a specific time to complete each task. (1-2 min) Use a timer that goes off to help students know when to switch stations. This way, when the timer goes off, students will just get up and move without direction.** ***Determine the amount of time based on the skill set of each group. I give some classes more time than others if needed. If I start with 2 minutes and all of the students are finishing quickly, I will decrease the time as we go. Usually 2 minutes is too much!***

I use this resource every year in the middle school math classroom. It can take up to a whole class period depending how much time is given to the students per station.

<u>Assessment/Grading</u>:

I observe the students during the activity and offer help if needed. After the activity, I collect their worksheet. This activity can be graded on accuracy or for effort or completion. If grading for effort/completion, make sure that the students show work and attempt all questions!

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Station #1

Simplify the expression.

$$|-3| + 3 - |-3| + 3^2$$

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Station #2

Evaluate the expression when

$$x = 10, y = 0, z = 5$$

$$(3x + xy) \div z$$

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Station #3

Evaluate the expression when

$$x = 20,\ y = 5$$

$$y^2 - x$$

Station #4

Twilight club is having a fundraiser for an end of the year celebration. You can evaluate the expression $2x$ to find the number of dollars the club raises when x donations are received for $\$2$ each. Find the amount of money the club receives when they get 125 donations.

Station #5

Simplify the expression.

$$(215)^0 + (1{,}792)^0 + 2^1$$

Station #6

Evaluate the expression when

$$a = 3,\ c = 1$$

$$(a^2 + c) \bullet a$$

Station #7

Evaluate the expression when

$$a = 2,\ b = 7$$

$$2(a^2 + b) + a$$

Station #8

Simplify the expression.

$$(1{,}265{,}599^0) + 5^3 - 26$$

Station #9

Evaluate the expression when

$$x = 20,\ y = 5$$

$$\frac{x + 5}{y}$$

Station #10

Simplify the expression.

$$3(2^3) + 3$$

Station #11

6^{th} Period Pre-Algebra is working on a team project in groups of 4. There are 36 students in the class. You can evaluate $\frac{36}{x}$ to find the total number of teams. x represents the number of people in each group. How many different teams are working on the project in 6th Period?

Station #12

Evaluate the expression when

$$x = 20,\ y = 5$$

$$3(x - y)$$

Station #13

Simplify the expression.

$$(6 \div 2 - 1 + 2)^2$$

Station #14

Simplify the expression.

$$|-15| - |-12| - |-2|$$

Station #15

Simplify the expression.

$$\frac{50 - 10 + 5}{3^2}$$

Station #16

Evaluate the expression when

$$p = 3,\ m = 2,\ n = 1$$

$$p^4 - m^2 - n^1$$

Station #17

Simplify the expression.

$$6 + 3\,(1 + 4)^2$$

Station #18

Simplify the expression.

$$4[15 - (2 + 5)]$$

Station #19

You can evaluate $30x$ to find the total cost of breakfast for 30 math contest winners. X breakfast sandwiches were bought for $5 each at Exact Change Fast Food. Find the total cost of breakfast for the winners.

Station #20

Simplify the expression.

$$3 \times 6 - 8 \times 2$$

Review Stations 1-10 Answers:

Evaluating Expressions and Order of Operations

Station #1: 12	**Station #2:** 6
Station #3: 5	**Station #4:** $250
Station #5: 4	**Station #6:** 30
Station #7: 24	**Station #8:** 100
Station #9: 5	**Station #10:** 27

Review Stations 11-20 Answers:

Evaluating Expressions and Order of Operations

Station #11: 9	**Station #12:** 45
Station #13: 16	**Station #14:** 1
Station #15: 5	**Station #16:** 76
Station #17: 81	**Station #18:** 32
Station #19: $150	**Station #20:** 2

Date _____ Period _____ Name _____

REVIEW STATIONS: Order of Operations and Evaluating Expressions

1.	2.	3.	4.
5.	6.	7.	8.
9.	10.	11.	12.
13.	14.	15.	16.
17.	18.	19.	20.

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