

NAME: _____ Class name: _____

2024 6th Grade MATH FINAL INFO

6th grade math final is Tuesday 6-18-24, AM Half Day, 8:07-8:14 HB, Math Final 8:17-9:43, 2A
 35 multiple choice questions bubbling in your choice

52.5 pt grade counts for ~20% Q4 math as one quiz grade.

Calculator can be used! No formulas will be given to you.

Work paper options: work right by each question or on separate paper; not looked at.

Bring two pencils.

Extra help: see the Hoffkids homepage for the schedule of sessions.

Our reviews start Tues 6-11 as homework then each day in class or homework

The Math Topics Learned this Year (could be on the final)

All topics from Sept- June. *continues on back*

Complete the inventory Topic Table below



#	31 Topics	I'm Awesome	I Need To Really Review	I Don't Know How! (or I'm not sure what you mean)
1	putting negatives and positive numbers in order			
2	Finding the absolute value ex. $ -8.5 =$			
3	Telling the prime factorization using factor trees			
4	find the greatest common factor of two numbers less than 100 or word problems			
5	Least Common multiple (two numbers under 12 and word problems)			
6	translating verbal phrases and word problems to algebraic expressions or equations (remember FLIP TERMS)			
7	Comparing negatives and absolute value using $>, <, =$ ex. $-423 < -422.5$			
8	finding the volume of a rectangular prism with decimals or fraction lengths (no formula given)			
9	evaluating algebraic expressions using order of operations (plug numbers in variables & simplify)			
10	Integer understanding (words like debit, credit, sea level, etc) Opposites, opposite of opposite			

#	Topic	I'm Awesome	I Need Review	I Don't Know How! (or I'm not sure what you mean)
11	coordinate graphing (locate points in four quadrants) and quadrants			
12	Simplify an expression that has exponents using ORDER of OPERATIONS			
13	Area of a triangle, parallelogram, shaded regions (know where the height is! no formulas given)			
14	finding the mean, median, mode, range of data and from a dot plot			
15	Solving 1 step algebraic equations using inverse operations ex. $n - 7.9 = 4.3$			
16	completing ratio tables with missing numbers			
17	multiplying and dividing fractions/mixed numbers (algorithm and with word problems)			
18	creating an equal algebraic expression using the DISTRIBUTIVE property and combining like terms (CLT)			
19	calculating surface area from the net of a rectangular or triangular prism (sum areas all faces)			
20	converting between percent, fraction, and decimal equivalents			
21	finding the percent of a number			
22	Graphing inequalities/matching the graph to the correct inequality (open circle, closed circle)			
23	Reading and interpreting dot plots and histograms			
24	writing reduced ratios and equal ratios using the colon or fraction bar			
25	find the length of a line segment given coordinate points (with and without a grid)			
26	Ratio problem solving			
27	writing rates and the unit rates including telling which is the better buy			
28	creating equivalent algebraic expressions by factoring out the GCF			
29	Percent problem solving			
30	Area of irregular shapes on a coordinate graph			
31	<u>Exponents</u>			

FINAL REVIEW #1 SHOW ALL WORK!!!

A calculator can be used WITH WORK SHOWN.

<p>Q1 (topic #1) Which list shows the numbers from least to greatest?</p> <p><input type="radio"/> -24, -12, 18, -16</p> <p><input type="radio"/> -12, -24, 18, -16</p> <p><input type="radio"/> -24, -16, -12, 18</p> <p><input type="radio"/> 18, -12, -16, -24</p>	<p>Q2 (topic #2) Solve for each:</p> <p>$23 = \underline{\hspace{2cm}}$</p> <p>$-48 = \underline{\hspace{2cm}}$</p> <p>$37 + -21 = \underline{\hspace{2cm}}$</p> <p>$-23 - +2 = \underline{\hspace{2cm}}$</p> <p>$-2 + 10 - 3 = \underline{\hspace{2cm}}$</p>
<p>Q3 (topic #3) Find the prime factorization of 84 using a factor tree.</p>	<p>Q4 (topic #3) Find the prime factorization of 140 using a factor tree.</p>
<p>Q5 (topic #1) Put these temperatures in order from warmest to coldest. -15, 0, 12, 24, -1, -15.5, -6</p> <p>_____</p>	<p>Q6 (topic #7) Which one of the following is NOT true?</p> <p><input type="radio"/> $-14 > 13$</p> <p><input type="radio"/> $-8 = +8$</p> <p><input type="radio"/> $6 > -7$</p> <p><input type="radio"/> $1 > 0$</p>
<p>Q7 (topic #5) If your dog meows every 10 days, and your cat barks every 6 days, in how many days will both of your pets make a sound on the same day?</p>	<p>Q8 (topic #4) What is the greatest common factor of 36 and 60?</p>
<p>Q9 (topic #4) What is the greatest common factor of 18 and 45?</p>	<p>Q10 (topic #5) What is the Least Common Multiple of 4 and 10?</p>

Q11 (topic #6)

What is the expression for:

11 less than the quotient of 10 and a number n

$\frac{10}{n} - 11$

$11 - \frac{10}{n}$

$10n - 11$

$11 - 10n$

Q12 (topic #6)

Write the algebraic expression for:

15 less than the product of 6 and r

Q13 (topic #5)

What is the Least Common Multiple of 2 and 6?

Q14 (topic #9)

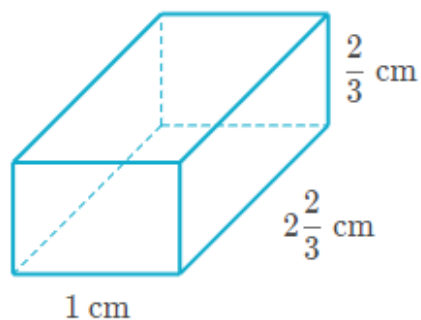
Look at the expression below

$$\frac{1}{2}m(5 + n^3) + (m - n)^2$$

What is the value of the expression when $m = 8$ and $n = 3$?

Q15 (topic #8)

Find the volume of the rectangular prism using the formula.



Q16 (topic #8)

Find the volume of the rectangular prism using the formula.

