NAME: _____

DUE: _____

8TH GRADE SKILL REVIEW HOMEWORK

Show your Work. Simplify all fractions to the lowest term.

WEEK #1

INTEGER OPERATIONS

Simplify each expression.

1 $27 + (-13)$

2 $-3\,(-25)$

3 $125 - (-25)$

4 $\frac{-220}{-22}$

ORDER SETS OF NUMBERS

List the number below in order from least to greatest.

5 $\frac{8}{2}, -\frac{2}{3}, -0.7, \sqrt{144}$

Hint: Convert numbers to the same form.

No Work = No Credit!

DECIMAL OPERATION

Simplify the expression.

6 $37.2\,(-5.05)$

No Work = No Credit!

CONVERT FRACTION/DECIMALS/PERCENTS

Complete the table.

7

Fraction	Decimal	Percent
		675%

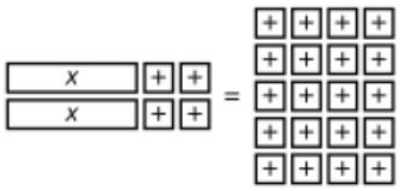
Simplify fraction to the lowest term.

FRACTION OPERATION

8 $7\frac{1}{4} - 2\frac{7}{8}$

No Work = No Credit!

EQUATION MODELS



9 Equation: **Write it!**

Show all work to solve.

10 Solution: **Check your answer!**

NAME: _____

DUE: _____

8TH GRADE SKILL REVIEW HOMEWORK

Show your Work. Simplify all fractions to the lowest term.

WEEK #1

ORDER OF OPERATIONS

Simplify the expression.

11 $(1-4^3)(2)$

Show all steps to simplify.

No Work = No Credit!

INEQUALITIES

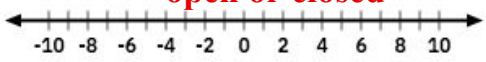
Solve and graph the inequality.

$\frac{x}{2}+4<8$

12 **Show work to solve!**

Graph here!

13 **Use the correct circle: open or closed**



EQUATIONS

Solve the equation.

14 $6x-7=23$

Show all work to solve.

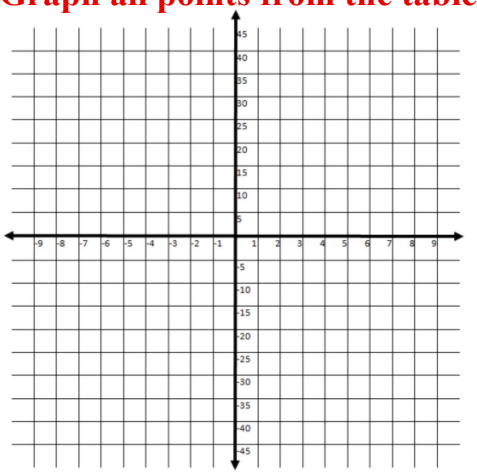
Check your answer!

ALGEBRAIC RELATIONSHIPS

15 What is the rate of change?

x	y
6	36
8	48
10	60

Graph all points from the table!



Use table or graph to find rate of change.

Rate of Change:

STAAR GRADE 8 MATHEMATICS REFERENCE MATERIALS

STAAR State of Texas Assessments of Academic Readiness

LINEAR EQUATIONS

Slope-intercept form	$y = mx + b$
Direct variation	$y = kx$
Slope of a line	$m = \frac{y_2 - y_1}{x_2 - x_1}$

CIRCUMFERENCE

Circle	$C = 2\pi r$	or	$C = \pi d$

AREA

Triangle	$A = \frac{1}{2}bh$
Rectangle or parallelogram	$A = bh$
Trapezoid	$A = \frac{1}{2}(b_1 + b_2)h$
Circle	$A = \pi r^2$

SURFACE AREA

	Lateral	Total
Prism	$S = Ph$	$S = Ph + 2B$
Cylinder	$S = 2\pi rh$	$S = 2\pi rh + 2\pi r^2$

VOLUME

Prism or cylinder	$V = Bh$
Pyramid or cone	$V = \frac{1}{3}Bh$
Sphere	$V = \frac{4}{3}\pi r^3$

ADDITIONAL INFORMATION

Pythagorean theorem	$a^2 + b^2 = c^2$
Simple interest	$I = Prt$
Compound interest	$A = P(1 + r)^t$