

Math 10D**Unit 0 – Grade 9 Skills Review****Lesson 1: Integers, BEDMAS, and Fractions**Name: Mrs. JaurDate: Jan 31, 2025.Review of Integers

a.) $6 + 3 = 9$

b.) $6 + (-13) = -7$
 $6 - 13$

c.) $6 - (-13) = 19$
 $6 + 13$

d.) $6(-13) = -78$

e.) $(-6)(-13) = 78$

f.) $6^2 = 36$
 6×6

g.) $(-6)^2 = 36$
 $(-6)(-6)$

h.) $-6^2 = -36$

i.) $\frac{-(6+13)}{7+5} = \frac{-19}{12}$

Review of BEDMAS

a.) $(4+9)^2 - 9 =$
 $= (13)^2 - 9$
 $= 169 - 9$
 $= 160$

b.) $-2(4+9)^2 - 9 =$
 $= -2(13)^2 - 9$
 $= -2(169) - 9$
 $= -338 - 9$
 $= -347$

c.) $-(4+9)^2 + 9 =$
 $= -13^2 + 9$
 $= -169 + 9$
 $= -160$

- ① B → BRACKET
② E → EXPONENTS
③ D → DIVISION
M → MULTIPLICATION
④ A → ADDITION
S → SUBTRACTION

Review of Fractions

$$a.) \frac{4}{5} + \frac{11}{5} = \frac{4+11}{5} = \frac{15}{5} = \textcircled{3}$$

$$b.) \frac{4}{5} + \frac{11}{6} = \frac{6 \times 4}{6 \times 5} + \frac{11 \times 5}{6 \times 5} = \frac{24+55}{30} = \frac{79}{30}$$

$LCD(5,6)=30$

$$c.) \left(\frac{4}{5} \right) \left(\frac{11}{5} \right) = \frac{4 \times 11}{5 \times 5} = \frac{44}{25}$$

$$d.) \left(\frac{4}{5} \right) \div \left(\frac{11}{5} \right) = \frac{4}{5} \div \frac{11}{5}$$

Keep-Switch-Flip
(RECIPROCAL)

$$= \frac{4}{5} \times \frac{5}{11} = \frac{4}{11}$$

$$e.) 3\frac{4}{7} - 2\frac{3}{7} =$$

$$= \frac{25}{7} - \frac{17}{7}$$

$$= \frac{8}{7}$$

$$f.) -\frac{3}{4} - \left(\frac{5}{4} \right)^2 = -\frac{3}{4} - \frac{25}{16}$$

$$= -\frac{12}{16} - \frac{25}{16}$$

$$= -\frac{37}{16}$$

$$g.) \frac{\left[\frac{7}{3} - \left(\frac{5}{4} - \frac{3}{4} \right)^2 \right]}{\left[-1\frac{11}{48} \right]} = \left[\frac{7}{3} - \left(\frac{5-3}{4} \right)^2 \right] \div \left[-1\frac{11}{48} \right]$$

$$= \left[\frac{7}{3} - \left(\frac{2}{4} \right)^2 \right] \div \left[-\frac{59}{48} \right]$$

$$= \left[\frac{7}{3} - \frac{1}{4} \right] \times \frac{48}{59}$$

$$= \frac{25}{12} \times -\frac{48}{59}$$

$$= -\frac{100}{59}$$