

Math 11

Unit 0 – Math Skills Review

Lesson 1: Integers, BEDMAS, and Fractions

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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.) $-6^2 = -36$
 -6×6

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 — BRACKETS
- ② E — EXPONENTS
- ③ D — DIVISION
- ③ M — MULTIPLICATION
- ④ A — ADDITION
- ④ S — SUBTRACTION

Review of Fractions

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

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

$LCD(5, 6) = 30$

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

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

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

$$\frac{25}{7} - \frac{17}{7} = \frac{25-17}{7} = \textcircled{\frac{8}{7}}$$

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

$LCD(4, 16) = 16$

$$g.) \left[\frac{7}{3} - \left(\frac{5}{4} - \frac{3}{4} \right)^2 \right] \div \left(\frac{-59}{48} \right) = \left[\frac{7}{3} - \left(\frac{5}{4} - \frac{3}{4} \right)^2 \right] \div \left(\frac{-59}{48} \right)$$

$= \frac{2}{4} = \frac{1}{2}$

$$= \left[\frac{7}{3} - \left(\frac{1}{2} \right)^2 \right] \times \frac{-48}{59}$$

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

$$= \left(\frac{28-3}{12} \right) \left(\frac{-48}{59} \right)$$

$$= \frac{25}{12} \cdot \frac{-48}{59} = \frac{-100}{59}$$

$$= -\frac{12}{16} - \frac{25}{16} = \frac{-37}{16}$$