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Part 2 Pre-Algebra
Week 3

DTM p. 86 & 87

2) $4 + 3g = 7$ ✿
$4 + 3(1) = 7$
$4 + 3(-1) = 1$
$4 + 3(\frac{1}{3}) = 5$
$4 + 3(.2) = 4.6$

? 3) $2(\overset{2}{1}) + \frac{6}{1} = 8$
$2(\overset{4\ 2}{2}) + \frac{6}{2_1} = 4 + 3 = 7$
$2(-3) + \frac{6}{-3} = (-6) + (-2) = -8$
$2(\odot) + \frac{6}{\odot} = 2\odot + \frac{6}{\odot}$

DtM pg 96

2) $7 - 4z$
$7 + (-4z) =$
There are two terms.
The variable is z.
The constant is 7.
The coefficient is 4.

3) $n - m =$
$n + (-m) =$
There are two terms
The variables are n & m.
There is no constant
The coefficient is 1 & (-1).

4) $.2 + a - 5b + \frac{2}{3}c$
$.2 + 1a + (-5b) + \frac{2}{3}c$
There are four terms.
There are a, b & c variables.
The constant is 0.2.
The coefficient is 1, -5, $\frac{2}{3}$

5) $\frac{3x}{5} - 9 - y =$
$\frac{3x}{5} + (-9) + (-y) =$
There are 3 terms.
There are x & y variables.
The constant is -9.
The coefficient are $\frac{3}{5}$ and -1

DtM page 105

2) $9j + 3j - 5j =$
$9j + 3j + (-5j) =$
$12j + (-5j) = 7j$

3) $11c - 4c - (-7c) =$
$11c + (-4c) + 7c =$
$18c + (-4c) = 14c$

DTM pg 105 cont

4) $0.8y - (-0.3y) - 0.9y =$
$0.8y + 0.3y + (-0.9y) =$
$1.1y + (-.9y) = .2y$

5) $\frac{1}{2}Z - \frac{1}{4}Z =$
$\frac{1}{2}Z + (-\frac{1}{4}Z) = \frac{1}{4}Z$

6) $7t - 2t - (-t) + 10 =$
$7t + (-2t) + t + 10 =$
$5t + t + 10 = 6t + 10$

DTM 112 & 113

2) $(8g)(-2gh) = -16g^2h$

3) $(-9a)(-5b)(\frac{1}{9}a) =$
$45ab(\frac{1}{9}a) = 5a^2b$

4) $(10w)(0.1)(2w) =$
$20w^2(0.1) = 2w^2$

5) $(163v)(0)v(6x) = 0$

DtM pg 119

2) $(-2)(-x)(y) + \frac{yz}{y} =$
$\frac{2xy}{1} + \frac{yz}{y} = 2xy + z$

3) $\frac{-10(-a)}{(-5)ab} = \frac{-2}{b}$

4) $\frac{-9c(-d)}{3d} \div \frac{c}{(-2)} = \frac{9cd}{3d} \times \left(-\frac{2}{c}\right) = -6$

DtM pg. 126 & 127

2) $5 - g + 2h + 2g - h$
$5 + (-g) + 2h + 2g + (-h)$
$5 + g + h =$

3) $6a + 7b + b^2 - 2a + 3b - 7b^2$
$6a + 7b + b^2 + (-2a) + 3b + (-7b^2)$
$4a + 10b + (-6b^2)$

4) $3x + 3yz - 3xy - 3x - 3zy$
$3x + 3yz + (-3xy) + (-3x) + (-3zy)$
$= (-3xy)$

DtM   pg 133 & 134

2) $14\left(\frac{8}{7} + \frac{3}{14}\right) =$
   $16 + 3 = 19$

3) $10(8.1 - 4.9)$
   $81 - 49 = 32$

4) $10(8.1 - 1/5)$
   $81 - 2 = 79$

DtM   pg 140

2) $5 - (h - 4)$
   $5 + (-1)(h - 4)$
   $5 + (-h + 4)$
   $9 - h$

3) $10 - 3y(x - 4)$
   $10 + (-3xy) + 12y$

4) $xy - 10\left(0.8 + \frac{xy}{10}\right)$
   $xy + (-10)\left(0.8 + \frac{xy}{10}\right)$
   $xy + (-8) + (-xy) = -8$

5) $8ab - a\left(b - \frac{1}{a} + 3\right)$
   $8ab + (-a)\left(b - \frac{1}{a} + 3\right)$
   $8ab + (-ab) + 1 + (-3a)$
   $7ab - 3a + 1$

DtM   pg 149

2) $2x - 1 = 0$
a) This is a math Sentence. It's an equation.
b) This can be translated to: Two multiplied by x minus one is equal to zero.

3) $y/3 + 3 + x$
a) This is an expression
b) One third of y, plus three, plus x

4) $a \geq 2$
a) This is a math Sentence. It's an inequality
b) a is greater than or equal to two

DtM 149 cont.

5) $g + 0$
a) This is not a math Sentence
b) G plus zero

6) $\frac{z}{3} < 7$
a) This is an inequality
b) One third of Z is less than Seven

DtM   150 & 151

2)a) Seven is less than twice x.
   This is an inequality.
b) $7 < 2x$

3) a) 13 is greater than triple c
   This is an inequality
   $13 > 3c$

4) a) 12 greater than triple c
   This is an expression.
b) $12 + 3c$

5) 5 less than half y
   This is an expression.
b) $\frac{1}{2}y - 5$

6) 7 is more than one-fourths of w
   This is an inequality
b) $\frac{w}{4} < 7$

7) a) 8 more than one-third of x is 11
   This is an equation.
   $8 + \frac{x}{3} = 11$

DtM pg 154 & 155

2) $2s - 5 =$

3) $x = \frac{1}{4} \times \frac{4}{5}$
   $x = \frac{1}{5}$

4) $\frac{s-5}{6}$

5) $\frac{s-10}{2}$

6) $2y + 9$

? 7) $m - \frac{4}{5}m - 2$