Geometry ND Summer Packet

This will be due the Monday of the first full week of school. Students will have a TEST over this material during the first full week of school

Solve each equation.

1) $6 = \frac{a}{4} + 2$

2) $-6 + \frac{x}{4} = -5$

3) $9x - 7 = -7$

4) $0 = 4 + \frac{n}{5}$

5) $-4 = \frac{r}{20} - 5$

6) $-1 = \frac{5 + x}{6}$

7) $\frac{v + 9}{3} = 8$

8) $2(n + 5) = -2$

9) $-9x + 1 = -80$

10) $-6 = \frac{n}{2} - 10$

11) $-2 = 2 + \frac{v}{4}$

12) $144 = -12(x + 5)$

Solve each equation. Show all work.

1) $6 + r = 2r + 3$

2) $3 + 3m = 2m + 3$

3) $1 - 3x = -5 - x$

4) $3x - 2 = -4 + 3x$

5) $1 + 2b = 1 + 3b$

6) $-1 + 3b = -4 + 2b$

7) $-4x - 1 = -4x - 4 + 4$

8) $-6r + 2r = -2 - 5r$

9) $a - 2 = -1 + 2a - 4 - 1$

10) $v + 1 = -2 + 2v$

Add the following fractions. Remember, you need to get a common denominator first. Students should be able to add, subtract, multiply, and divide fractions WITHOUT using a calculator,

1) $\frac{4}{5}+\frac{4}{7}$

2) $\frac{1}{2}+\frac{11}{8}$

3) $\frac{1}{5}+\frac{1}{3}$

4) $\frac{7}{9}+\frac{1}{3}$

5) $\frac{1}{2}+\frac{1}{7}$

6) $\frac{5}{8}+\frac{2}{3}$

Multiply the two fractions

1) $\frac{21}{30}\times\frac{2}{3}$

2) $\frac{3}{10}\times\frac{5}{6}$

3) $\frac{7}{12}\times\frac{2}{3}$

4) $\frac{12}{7}\times\frac{5}{8}$

5) $\frac{3}{4}\times\frac{5}{4}$

6) $\frac{2}{9}\times\frac{3}{5}$

Answer KEY

Solving equations

1) a= 16 2) x = 4 3) x= 0 4) n = -20 5) r = 20 6) x = -11
7) v = 15 8) n = -6 9) a = 4 10) v= 3 11) v = -16 12) x = -17

Second solving equations

1) r = 3 2) m = 0 3) x= 3 4) no solution 5) b = 0 6) b = -3
7) no solution 8) r = -2 9) a = 4 10) v = 3

Adding the fractions

1) 48/35 2) 15/8 3) 8/15 4) 10/9 5) 9/14 6) 31/24

Multiplying fractions

1) 7/15 2) ¼ 3) 7/18 4) 15/14 5) 15/16 6) 2/15