

Summer Math Review 2016

Date _____ Period _____

This packet is designed to help you remember the work you did in 7th grade. Show all your work. It will be your first graded assignment for Term I. You may use your notes from 7th grade but do this by YOURSELF! This is the first indicator to show me what you know and do not know.

Evaluate each expression.

1) $(-5) - \left(\left(-\frac{1}{6} \right) \right)$

2) $\left(-1\frac{2}{5} \right) - \left(\left(-\frac{3}{2} \right) \right)$

3) $\left(-2\frac{7}{8} \right) + \frac{1}{6}$

4) $\left(-3\frac{2}{3} \right) + \left(-1\frac{2}{3} \right)$

5) $|p| - |p + q|$; use $p = -8$, and $q = -7$

6) $\frac{(zx)^2}{3} - z$; use $x = -5$, and $z = 3$

7) $x + 8y - yx$; use $x = -10$, and $y = 4$

8) $y - (y)(5 - (x - 3))$; use $x = 10$, and $y = -1$

Simplify each expression.

9) $5(8 + 8k) - 3(6 + 7k)$

10) $6(-2 - 2x) - 7(2 - 6x)$

11) $7(1 - 3x) + 6(-8x + 7)$

12) $5(8x + 3) - 4(x + 3)$

Solve each equation.

13) $8(5 - 4n) - 7(n + 1) = 33$

14) $7 = -5(3p + 1) + 4(-6p + 3)$

$$15) -6(3 + 7v) - 7(1 - 7v) = -4$$

$$16) 2(-8x + 5) + 6(7x - 3) = -8$$

Solve each equation.

$$17) -7\frac{3}{8} = -1\frac{1}{2} - 1\frac{1}{4}b$$

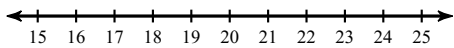
$$18) -1\frac{2}{5}r - 2\frac{1}{2} = -1\frac{17}{30}$$

$$19) \frac{77}{9} = \frac{1}{2} + \frac{5}{3}k$$

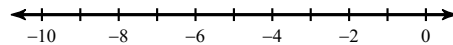
$$20) \frac{5}{4}b + 4 = 1\frac{17}{24}$$

Solve each inequality and graph its solution.

$$21) 5b - 13 < 87$$



$$22) \frac{20 + x}{4} < 4$$



Simplify. Your answer should contain only positive exponents.

23) $n^{-1} \cdot 2n^{-1}$

24) $m^{-3} \cdot 3m$

25) $5p^0 \cdot 2p^2$

26) $4p^{-2} \cdot p$

27) $(3n^3 \cdot 4n^3)^3$

28) $(6v)^3 \cdot 6v$

Write each number in scientific notation.

29) 0.352

30) 0.068

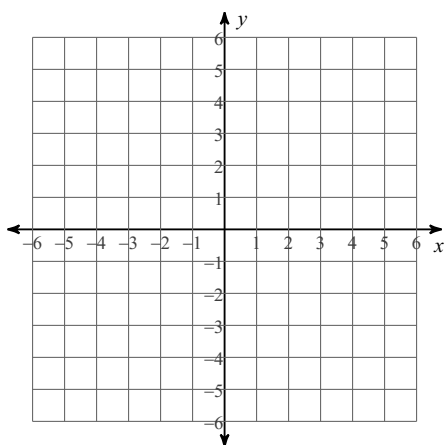
Simplify. Write each answer in scientific notation.

31) $(5.3 \times 10^{-1})(3.5 \times 10^3)$

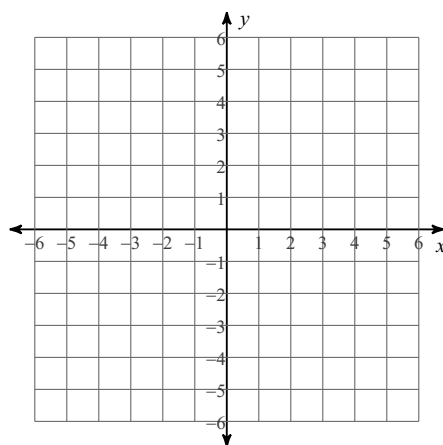
32) $(5.3 \times 10^{-3})(5.06 \times 10^{-3})$

Sketch the graph of each line.

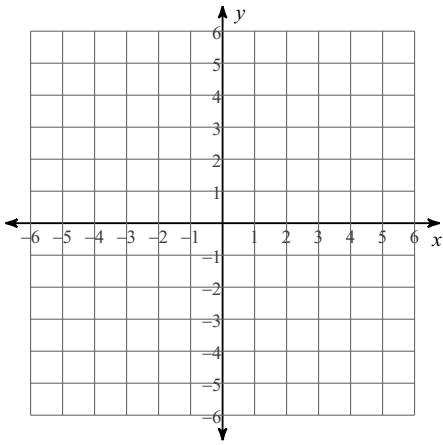
33) $y = \frac{1}{5}x - 1$



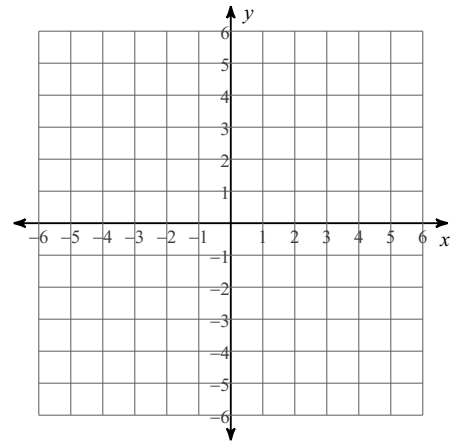
34) $y = \frac{7}{5}x - 3$



35) $x = -5$

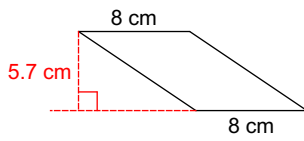


36) $y = 5$

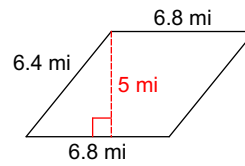


Find the area of each.

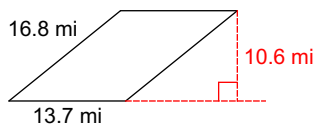
37)



38)



39)



40)

