1.) $-2(6 \div 3)^2 =$

a) -24

b) -8

c) 8

d) -4

e) 16

2.) $\frac{5 + 15}{35} =$

a) $\frac{1 + 15}{7}$

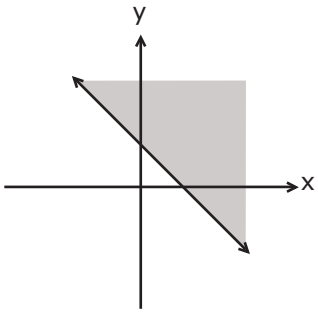
b) $\frac{5 + 3}{7}$

c) $\frac{1 + 3}{7}$

d) $\frac{0 + 15}{7}$

e) None of these

3.) The shaded region including the boundary line is a graph of



a) $x + y \geq 0$

b) $x + y \geq 1$

c) $x + y > 1$

d) $x + y \leq 1$

e) $x + y \leq 0$

4.) $\frac{2^3 2^5}{2^4} =$

a) 2

b) 4

c) 8

d) 16

e) 32

5.) $(2x - 3)^2 =$

a) $-12x$

b) $4x^2 + 9$

c) $4x^2 - 5x + 9$

d) $4x^2 - 12x + 9$

e) $4x^2 - 6x + 9$

6.) How many real numbers are solutions for $x^2 - 5x + 7 = 0$?

a) none

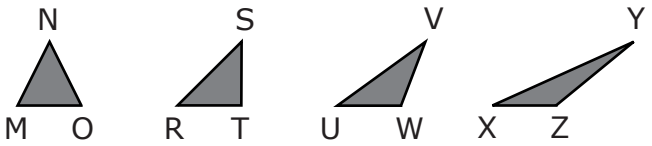
b) one

c) two

d) three

e) more than three

7.) In which triangle is the sum of the measures of the angles the greatest?



a) MNO

b) RST

c) UVW

d) XYZ

e) None of these

8.) Fifteen ounces of concentrate is mixed with 45 ounces of water to make 60 ounces of orange juice. What percent of the orange juice is concentrate?

a) 3

b) 4

c) 25

d) 30

e) $33\frac{1}{3}$

9.) The distance between the points (x, y) and (2, 3) is

a) $\sqrt{(x^2 + y^2) - (2^2 + 3^2)}$

b) $|x - 2| + |y - 3|$

c) $(x - 2)^2 + (y - 3)^2$

d) $\sqrt{(x - 2)^2 + (y - 3)^2}$

e) $\sqrt{(x - 2) + (y - 3)}$

10.) $5(a + b) + 2(a + c) - 4(b + c) =$

a) $3(a + b + c)$

b) $7a + b - 2c$

c) $7a - 3b + 2c$

d) $3(a + b)$

e) $7a + b + 6c$

11.) Subtracting n from 4 added to three times n is equal to

a) $-2n - 4$

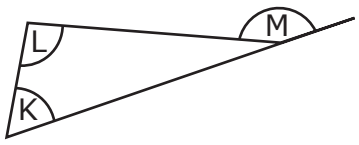
b) $-2n + 4$

c) $2n + 4$

d) $4n - 4$

e) $4n + 4$

12.) Which best describes how angles K , L , and M are related?



a) K + L = M

b) K + L > M

c) K + L < M

d) K + L + M = 180

e) More information needed