\_\_\_\_\_\_\_\_1) How many distinct ways can you

line up 4 people in a line?

\_\_\_\_\_\_\_\_ 2) What is the name of the polygon

with 14 diagonals?

\_\_\_\_\_\_\_\_ 3) Which one is larger:

?

\_\_\_\_\_\_\_\_4) can be expressed as where

a and b are relatively prime. What is

a+b?

\_\_\_\_\_\_\_\_ 5) Simplify: .

\_\_\_\_\_\_\_\_ 6) What is the area of a circle with

circumference 10?

\_\_\_\_\_\_\_\_ 7) Given a and b are roots of the

equation , what is

the value of ?

\_\_\_\_\_\_\_\_ 8) Given that , solve for

x.

\_\_\_\_\_\_\_\_ 9) Compute: 784,212+82,234.

\_\_\_\_\_\_\_\_10) If , then what is

the value of ?

\_\_\_\_\_\_\_\_11) The price of a T-shirt was

originally $4.50. It was increased

by 20% then decreased by 20%.

What is its current cost?

\_\_\_\_\_\_\_\_12) What is the slope of the line that

intersects the points (5,7) and

(2,8)?

\_\_\_\_\_\_\_\_13) What is the sum of the first 18

whole numbers?

\_\_\_\_\_\_\_\_14) A triangle with perimeter of 45 has

a side length of 10. Another

triangle is similar to the first has a

corresponding side length of 14.

What is the perimeter of the

second triangle?

\_\_\_\_\_\_\_\_15) How many positive integral factors

does 18 have?

\_\_\_\_\_\_\_\_16) A right triangle has legs 13 and

35. What is the square of the

hypotenuse minus 169?

\_\_\_\_\_\_\_\_17) What is the value of?

\_\_\_\_\_\_\_\_18) A man walks 3 meters south, 10

meters west, 15 meters north, and

6 meters west. How many meters

is he from his starting position?

\_\_\_\_\_\_\_\_19) Evaluate.

\_\_\_\_\_\_\_\_20) Express as a common

fraction.

\_\_\_\_\_\_\_\_21) What is one-third of one-fifth of

one-seventh of 840?

\_\_\_\_\_\_\_\_22) What is the mean of 4, 7, 5, 3, and

6?

\_\_\_\_\_\_\_\_23) What is the perimeter of a regular

octagon with side length of 4?

\_\_\_\_\_\_\_\_24) What is the least common multiple

of 42 and 35?

\_\_\_\_\_\_\_\_25) What is the sum of all interior

angles of a nonagon in degrees?

\_\_\_\_\_\_\_\_26) What is the value of ?

\_\_\_\_\_\_\_\_27) Evaluate .

\_\_\_\_\_\_\_\_28) A circle of radius 3 is concentric

with  another circle of radius 6.

What is the  area within the larger

circle, but outside the

smaller?

\_\_\_\_\_\_\_\_29) Evaluate

\_\_\_\_\_\_\_\_30) There are 2 red balls, 5 green

balls, and 4 yellow balls in a jar.

What is the probability of not

drawing a green ball?

\_\_\_\_\_\_\_\_31) What is the probability that in a

room of 10 people, at least two of

them were born on the same

weekday?

\_\_\_\_\_\_\_\_32) A pentagonal prism has a regular

pentagon as a base. It has a

height of 8 and the pentagon’s

side length is 3. What is the lateral

surface area?

\_\_\_\_\_\_\_\_33) Two interior angles of a triangle

measure 32 and 56 degrees. What

is the measure of the third angle in

degrees?

\_\_\_\_\_\_\_\_34) What is the axis of symmetry of

the parabola,?

\_\_\_\_\_\_\_\_35) What is to the nearest

hundredths?

\_\_\_\_\_\_\_\_36) My favorite song is 3 minute and

37 seconds long. How long is my

song in seconds?

\_\_\_\_\_\_\_\_37) What is the area of a rectangle

with a length of 5 and a width of 3?

\_\_\_\_\_\_\_\_38) If it takes a car 12 seconds to

travel 85 meters, then how many

meters will it go in 1 minute?

\_\_\_\_\_\_\_\_39) What is the 8th term of the

sequence shown? 1, 4, 7, 10,...

\_\_\_\_\_\_\_\_40) Compute: .