Final Exam Test Out

1. 32 divided by 4 plus 16 divided by 2 times 4

2. The mixed fraction 2 and 1 over 8 divided by the mixed fraction 5 and 3 over 4

3. The mixed fraction 2 and 1 over 4 plus the mixed fraction 4 and 5 over 8

4. Negative 1 times 5 times negative 2 times negative 3

5. Negative 3 plus negative 5

6. 10 x squared y to the third power times the quantity 2 x y minus 1

7a. 0 point 000326

7b. 5 point 36 times 10 to the 6 power

8. The fraction 12 over 8 equals the fraction x over 2

12. 5 x minus 22 equals 3

13. 3 times the quantity x minus 5 equals 33

14. x minus 4 equals 2 times the quantity x minus 7

15. 31 minus 2 times the quantity x minus 5 equals negative 3 times the quantity x plus 4

16. 4 thousand 378

17. 0 point 00287

19. 0 point 875 miles

20. The diagram is made up of three figures that are connected. Starting from left to right they are as follows:

A rectangle with length of 100 feet and height of 50 feet.
A rectangle with length of 80 feet and height of 150 feet.
A triangle with base of 152 feet and height of 150 feet.

The length of both rectangles and base of the triangle all fall on the same line

21. The diagram is a isosceles trapezoidal prism. The trapezoid that forms the base has the following dimensions: bottom equals 13 inches, height equals 4 inches, top equals 7 inches. Also the height of the prism itself is 14 inches.

22. Decimal degree equals 16 point 7 degrees
Radians equals 0 point 423

23. A right triangle with one angle equals to 43 degrees. The side opposite the 43 degree angle equals y and the hypotenuse equals 23 inches.

24. A right triangle with one angle labeled theta. The side adjacent to angle theta equals 11 and the hypotenuse equals 28 centimeters

25. A right triangle with one angle equal to 72 degrees. The side adjacent to the 72 degree angles equals x and the side opposite the 72 degree angle equals 5 point 7 centimeters

Extra Credit

A diagram of a bolt or screw is given. The dimensions are all follows:

The head of the screw measures 0 point 67 inches
The body of the screw measures 2 point 83 inches
The threads of the screw are covered by a nut with length x and with a length of 0 point 75 inches still showing.

The entire bolt or screw including the nut has a total length of 5 inches