

Math 01 Sample Final A

Evaluate the expression in problems 1-10. Each of these is worth 2 points.

1.  $15(-7)$

2.  $20 - (-14)$

3.  $-15 + 8$

4.  $40 \div (-8)$

5.  $3 - 5 + 8 - 6 - 2$

6.  $\frac{5(-18)}{9}$

7.  $-9^2$

8.  $6 - 3(8 - 11)$

9.  $\frac{8 - (-2)}{-10 + (-8)}$

10.  $\frac{27 - 4\sqrt{9}}{3}$

For the rest of the exam, problems are worth 5 points each

11. Compute

(a)  $501,328 - 496,578$

(b)  $6912 \div 36$

12. Compute and express the result in lowest terms

(a)  $\frac{2}{15} + \frac{4}{9}$

(b)  $\frac{12}{13} \div \frac{15}{11}$

13. List the following fractions in order from smallest to largest:  $\frac{8}{15}, \frac{3}{5}, \frac{13}{24}$

14. Compute and express the result as a mixed number

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

(b)  $2\frac{3}{4} \times 3\frac{2}{3}$

15. Solve the proportion:  $\frac{8}{9} = \frac{6}{x}$

16. Find:

(a) The GCF of  $\{48, 60\}$

(b) The LCM of  $\{15, 50\}$

17. Compute

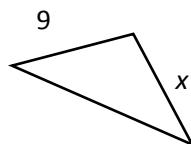
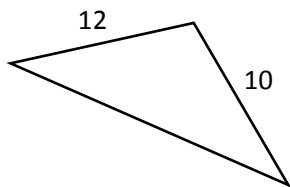
(a)  $8.3 \times 6.14$

(b)  $5.13 \div .15$

18. Express 0.03 as a percent.

19. A 50 mile trip requires 4 gallons of gas. How much gas will be needed for a 220 mile trip? Give your answer as a decimal. If necessary, round to the nearest tenth of a gallon.

20. Given that the two triangles are similar. Find  $x$ .



21. 20% of a number is 16. What is the number? If necessary round your answer to one decimal place.

22. In a class of 40 students 35 pass the final exam. What percentage pass the final exam?

23. Evaluate:  $2x^2 - 3x - 9$ , if  $x = -3$

24. Given  $C = \frac{5}{9}(F - 32)$ , Find C, if F=59

25. Solve for x:  $3x - 17 = 10$

26. The hypotenuse of a right triangle is 10 feet long. If one of the legs is 8 feet long, what is the length of the other leg?