

Math 01 Sample Final B

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

1. $-12(7)$

6. $\frac{-4(25)}{-5}$

2. $-20 - (-6)$

7. -11^2

3. $13 + (-8)$

8. $7 - 9(3 - 8)$

4. $-56 \div (7)$

9. $\frac{12 - (-3)}{-1 + (-2)}$

5. $7 - 11 + 2 - 6 - 5$

10. $\frac{20 - 3\sqrt{16}}{4}$

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

11. Compute

(a) $401,108 - 387,119$

(b) $2748 \div 12$

12. Compute and express the result in lowest terms

(a) $\frac{3}{16} + \frac{1}{10}$

(b) $\frac{18}{5} \div \frac{15}{2}$

13. List the following fractions in order from smallest to largest: $\frac{3}{4}, \frac{7}{9}, \frac{4}{5}$

14. Compute and express the result as a mixed number

(a) $6\frac{1}{9} - 2\frac{3}{5}$

(b) $5\frac{2}{3} \times 3\frac{3}{5}$

15. Solve the proportion: $\frac{5}{12} = \frac{x}{18}$

16. Find:

(a) The GCF of {120, 50}

(b) The LCM of {12, 30}

17. Compute

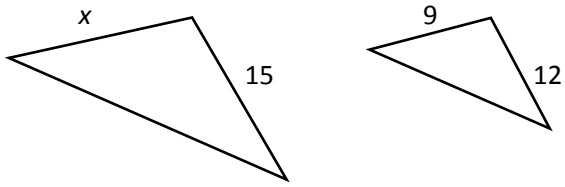
(a) 9.4×8.18

(b) $6.912 \div .16$

18. A 90 mile trip requires 5 gallons of gas. How many miles can I drive on 12 gallons? Give your answer as a decimal. If necessary, round to the nearest tenth of a gallon.

19. Express 0.4 as a percent

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



21. What is 45% of 80. What is the number? If necessary round your answer to one decimal place.

22. In a class of 30 students 28 pass the final exam. What percentage pass the final exam?

23. Evaluate: $3x^2 - 2x - 1$, if $x = -2$

24. Given $A = \frac{7}{8}B - 28$, Find A, if $B=72$

25. Solve for x : $5x + 19 = -26$

26. Find the hypotenuse of a right triangle if the two legs measure 5 and 12.