

Math 098
Final Exam

Review

Dear Student:

Enclosed is a study packet for your Math 098 final exam.

To do well on the final exam we recommend that you do the following:

- 1) Study the *Chapter Highlights* at the end of each chapter in the textbook.
- 2) Work the *Chapter Test* and the end of each chapter in the textbook.
- 3) Work the *Practice Final Exam* in this packet.
- 4) Work the *additional story problems* in this packet.

Good Luck!

Department of Mathematics

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Additional Story Problems

- 1) If y varies directly to x when $x = 15$ and $y = 48$, find y when $x = 8$.
- 2) If y varies indirectly to x when $x = 20$ and $y = 14$, find y when $x = 28$.
- 3) The sum of three consecutive odd integers is 243. Find the integers.
- 4) Sally has a tin can that contains \$5.65 in quarters and dimes. There are 34 coins in the can. How many of each type does she have?
- 5) If John can paint the fence in 3 hours and Ray can paint it in 7 hours, how long will it take them if they work together?
- 6) The area of a rectangle is 50ft^2 . The length is 5 ft more than the width. Find the measures of the length and the width.
- 7) Harry needs to mix a 10% iodine solution with a 35% iodine solution to produce 50 gallons of a 23% iodine solution. How much of each solution should he use?
- 8) The second angle of a triangle is 5° more than the first angle. The third angle is 10° more than three times the first angle. Find the measures of all the angles.

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Additional Story Problems

Answers

- 1) 25.6
- 2) 10
- 3) 79, 81, 83
- 4) 19 dimes, 15 quarters
- 5) $2\frac{1}{10}$ hours
- 6) width = 5 *ft*; length = 10 *ft*
- 7) 24 gals. at 10%; 26 gals. at 35%
- 8) 33°, 38°, 109°