

Math 45 Day 1

- It is very important that you read and understand your syllabus. It will tell you:
 - How to earn more points and get a higher grade
 - What will happen if you cheat (and it's bad)
 - What you need to buy for this class
 - Much more
- Fill out and return a questionnaire, today, before the end of class, especially if you are hoping to crash.
- You must purchase a MathXL code to do homework for this class. You must do homework to pass this class. Therefore, if you do not buy a MathXL code, you are choosing to fail.
- Bring your scientific calculator to class everyday.

Math 45 Overview

- { chap 1 - Review Arithmetic, esp. fractions.
- { chap 2 - Mostly word problems
- { chap 3 - lines and graphing
one line at a time
- { chap 4 - two lines at a time, system
- { chap 5 - lots of algebra with variables
- { chap 6 - factoring
- { chap 7 - fractions with variables

For most students, chapters 2, 3, 4 and 6 are very difficult.

This makes Math 45 a tough class.

~~Math 45 is a tough class. It is very important that you read and understand your syllabus. It will tell you: How to earn more points and get a higher grade, What will happen if you cheat (and it's bad), What you need to buy for this class, Much more. Fill out and return a questionnaire, today, before the end of class, especially if you are hoping to crash. You must purchase a MathXL code to do homework for this class. You must do homework to pass this class. Therefore, if you do not buy a MathXL code, you are choosing to fail. Bring your scientific calculator to class everyday.~~

These are the formulas students entering Math 45 need to with. Students will have additional formulas that are par curriculum and must have mastery of those also for the d

Formula & Conversion Sheet for Math 45

Students Need to Know the Following by Memory

Units tell us how we are measuring items: inches, feet, yards, miles, meters, pounds, ounces, tons, liters, grams are a few of the units we use.

1. Area of a square: $A = s^2$ remember answer will have square units.
2. Perimeter of a square: $P = 4s$ must include units with answer.
3. Area of a rectangle: $A = lw$ remember answer will have square units.
4. Perimeter of a rectangle: $P = 2l + 2w$ must include units with answer.
5. Area of a circle: $A = \pi r^2$ remember answer will have square units.
6. Circumference of a circle: $C = 2\pi r$ or $C = \pi D$ must include units with answer.
7. Diameter of a circle: $D = 2r$ must include units with answer.
8. Radius of a circle: $r = \frac{D}{2}$ must include units with answer.
9. Area of a triangle: $A = \frac{1}{2}bh$ or $A = \frac{bh}{2}$ remember answer will have square units
10. Perimeter of a triangle: $P = a + b + c$ must include units with answer.
11. The three angles of a triangle: $A + B + C = 180^\circ$ answer must have degree symbol.
12. Distance = rate x time: $D = rt$ the correct unit must be included with the answer.
13. Volume of a rectangular solid (box): $V = lwh$ units will be cubic units.
14. Simple interest formula Interest = principal x rate x time: $I = Prt$
15. Pythagorean theorem: $a^2 + b^2 = c^2$ must include units with answer.
16. Must know the following perfect square roots:
 $(\sqrt{4}, \sqrt{9}, \sqrt{16}, \sqrt{25}, \sqrt{36}, \sqrt{49}, \sqrt{64}, \sqrt{81}, \sqrt{100}, \sqrt{121}, \sqrt{144}, \sqrt{169})$
17. Must know the following perfect cubic roots:
 $(\sqrt[3]{-1}, \sqrt[3]{1}, \sqrt[3]{-8}, \sqrt[3]{8}, \sqrt[3]{-27}, \sqrt[3]{27}, \sqrt[3]{-64}, \sqrt[3]{64}, \sqrt[3]{-125}, \sqrt[3]{125})$
18. Must know the following perfect 4th roots: $(\sqrt[4]{1}, \sqrt[4]{16}, \sqrt[4]{81})$
19. Must know the following powers of 2: $(2^2, 2^3, 2^4, 2^5, 2^6, 2^7)$
20. Must know the following U.S. Conversions:
 (12 inches = 1 foot; 3 feet = 1 yard; 36 inches = 1 yard)
21. Must know the following time conversions:
 (60 seconds = 1 minute; 60 minutes = 1 hour; 24 hours = 1 day; 7 days = 1 week;
 52 weeks = 1 year)