

Accuplacer Elementary Algebra Study Guide

The following sample questions are similar to the format and content of questions on the Accuplacer Elementary Algebra test. Reviewing these samples will give you a good idea of how the test works and just what mathematical topics you may wish to review before taking the test itself. Our purposes in providing you with this information are to aid your memory and to help you do your best.

I. Order of operations

1. $3^2 + 5 - \sqrt{4} + 4^0$

3. $3 \cdot 7^2$

5. $49 \div 7 - 2 \cdot 2$

7. $3 + 2(5) - |-7|$

9. $\frac{4^2 - 5^2}{(4 - 5)^2}$

2. $(5 + 1)(4 - 2) - 3$

4. $2(7 + 3)^2$

6. $9 \div 3 \cdot 5 - 8 \div 2 + 27$

8. $\frac{5 \cdot 5 - 4(4)}{2^2 - 1}$

10. -5^2

II. Scientific Notation

Write the following in Scientific Notation.

1. 350,000,000

2. 0.00000000000000523

3. 120,500,000,000,000,000,000

Simplify. Write answers in scientific notation.

7. $(3 \times 10^3)(5 \times 10^4)$

8. $(3 \times 10^{-4})^2$

Write in expanded form.

4. 6.02×10^{23}

5. 3.0×10^8

6. 1.819×10^{-9}

9. $\frac{6 \times 10^9}{3 \times 10^4}$

10. $\frac{(3.2 \times 10^5)(2 \times 10^{-3})}{2 \times 10^{-1}}$

III. Substitution

Find each value if $x = 3$, $y = -4$, and $z = 2$.

1. $xyz - 4z$

2. $2x - y$

3. $x(y - 3z)$

4. $\frac{5x - z}{xy}$

5. $3y^2 - 2x + 4z$

IV. Linear equations in one variable

Solve the following for x .

1. $6x - 48 = 6$

2. $\frac{2}{3}x - 5 = x - 3$

3. $50 - x - (3x + 2) = 0$

4. $8 - 4(x - 1) = 2 + 3(4 - x)$

Elementary Algebra Study Guide

CH Cherryholmes



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a36 a572 grade 50 carbon hot rolled steel sheet plate alro - Oct 23 2022

web it meets the requirements of both astm a 36 and astm a572 50 a 36 a572 50 s strength form ability and excellent welding properties make it suitable for a large variety of different applications a 36 a572 50 s yield strength is increased to 50 000 psi higher than that of a normal a 36

astm a572 grade 50 ssab - Aug 01 2023

web the astm a572 specification is the standard specification for high strength low alloy columbium vanadium structural steel for used in general construction and structural applications astm a572 includes five grades with specified minimum yield strengths of 42 50 55 60 and 65 ksi respectively

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web dec 31 2021 50 345 a 50 345 4 b 100 b all all all all 55 380 55 380 2 1 Ú2 64 all all all all 60 415 a 60 415 2 1 Ú2 c 64 c 2 50 all all 65 450 65 450 2 50 2 50 all all a in the above tabulation grades 42 50 and 60 290 345 and 415 are the yield point levels most closely approximating a geometric progression patte rn

astm a572 steel grade 50 matweb - Apr 28 2023

web astm a572 steel grade 50 recently viewed materials available properties density typical of astm steel hardness brinell based on conversion from tensile strength hardness rockwell b based on conversion from tensile strength tensile strength ultimate tensile strength yield elongation at break in 200 mm elongation at break in 50 mm

datasheet for steel grades carbon steel a572 gr 50 - Dec 25 2022

web this page is mainly introduced the a572 gr 50 datasheet including chemical information mechanical properties physical properties mechanical properties heat treatment and micro structure etc it also contains the use of a572 gr 50 such as it is commonly used in bars sheet plates steel coils steel pipes forged and other materials

astm a572 ssab - Mar 28 2023

web astm a572 the astm a572 specification is the standard specification for high strength low alloy columbium vanadium

structural steel for plates used in general construction and structural applications astm a572 includes five grades with specified minimum yield strengths of 42 50 55 60 and 65 ksi respectively

a572 structural carbon hsla steel plate chapel steel - Jun 18 2022

web astm a572 a high strength low alloy steel plate that is utilized in a variety of structural applications this specification is produced in grades 42 50 55 60 65 the grades representing the yield strength plates that are 4 and thicker are made to a 42 ksi yield although material can be modified to reach the 50 ksi min yield

mechanical properties of astm a572 grades 50 and 60 steels at - Nov 23 2022

web this study presents a detailed experimental study on the mechanical properties of astm a572 grade 50 gr 50 and grade 60 gr 60 steels at high temperatures in addition extensive literature data on the yield strength tensile strength and elastic modulus of mild steel ms high strength steel hss and very high strength steel vhss