

Independent Training and Apprenticeship Program  
Practice Math Exam 1

- 1)  $3/8 + 1/2 =$   
a.  $4/10$  b.  $7/8$  c.  $4/8$  d.  $3/4$
- 2)  $9/10 - 1/6 =$   
a.  $11/15$  b.  $8/4$  c.  $8/10$  d.  $3/9$
- 3)  $1/2 * 4/5 =$   
a.  $5/7$  b.  $5/8$  c.  $2/5$  d.  $1/2$
- 4)  $5/6 \div 6/8 =$   
a.  $1/2$  b.  $5/12$  c.  $11/14$  d.  $10/9$
- 5) The decimal equivalent of  $3/5$  is  
a.  $.6$  b.  $.5$  c.  $.3$  d.  $.2$
- 6)  $12.56 + 1.009 =$   
a.  $22.65$  b.  $13.65$   
c.  $12.569$  d.  $13.569$
- 7)  $10.68 - .5 =$   
a.  $5.68$  b.  $10.18$   
c.  $10.63$  d.  $9.98$
- 8)  $1.25 * 6.5 =$   
a.  $10.3$  b.  $8.25$   
c.  $8.125$  d.  $13.05$
- 9)  $11.765 \div 3.25 =$   
a.  $3.52$  b.  $4.12$   
c.  $2.98$  d.  $3.62$
- 10)  $3^3 =$   
a.  $9$  b.  $27$  c.  $12$  d.  $15$
- 11)  $a^3 * a^4 =$   
a.  $a^7$  b.  $a^{12}$  c.  $a^1$  d.  $a^4$
- 12) Square Root of  $25 =$   
a.  $12.5$  b.  $6.25$  c.  $5$  d.  $4$
- 13) Evaluate  $(9a)^2$  without the parenthesis  
a.  $9a^2$  b.  $18a^2$  c.  $81a$  d.  $81a^2$
- 14) Convert to Scientific Notation  
.00456  
a.  $4.56 * 10^{-3}$  b.  $4.56 * 10^3$   
c.  $456 * 10^6$  d.  $45.6 * 10^{-5}$
- 15) Convert to Decimal Notation  
 $3.456 * 10^4$   
a.  $.0003456$  b.  $34560$   
c.  $3456$  d.  $.3456$
- 16) If a triangle has one side equal to 5 ft and the other side equal to 12ft. What is the length of the hypotenuse?  
a.  $17$  b.  $60$  c.  $13$  d.  $20$
- 17) Solve for x when  $6x = 36$   
a.  $x=30$  b.  $x=42$   
c.  $x=216$  d.  $x=6$

18) Solve for  $z$  when  $5(z + 2) = 2(z + 11)$

- a.  $z=2$  b.  $z=4$  c.  $z=1$  d.  $z=7$

19) If  $x = 5$  and  $z = 20$  what does  $y$  equal when  $y/x = z$

- a.  $y=80$       b.  $y=25$   
c.  $y=4$       d.  $y=100$

20) Solve for  $a$  in the equation:  
 $x = (a * l + z) \div b$

- a.  $a=(x-c-z)l$     b.  $a=xb - z - l$   
c.  $a=(xb-z)/l$     d.  $a=x*b-l/z$