

**KEY**

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.  $x=6$**

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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.  $a=x*b-l/z$