

## Answers to Practice Questions for MTE 3 – Algebra Basics

1. 3

2. 18

3.  $13^3$

4.  $1^5$

5. 8

6. 16

7. 4

8. -4

9.  $\frac{35}{24}$

10. 21.7

11. 8

12. -10

13. -24

14. -32

15. 27

16. 0.001

17.  $2.061 \times 10^9$

18. 0.09

19. a. Commutative  
b. Associative  
c. Distributive  
d. Additive Inverse  
e. Additive Identity  
f. Multiplicative Identity  
g. Multiplicative Inverse

20.  $23n + 21b$

21.  $2 + 3x$

22. 14

23.  $A=180$

24.  $n=-23$

25.  $x=\frac{1}{2}$

26.  $x=9$

27.  $t=8$

28. 78 credits

29. 37

30. 9220

31.  $V=192 \text{ ft}^3$

$P=28 \text{ ft}$

$A=48\text{ft}^2$