Math for HVACR 1st edition Xavier Test Bank

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Chapter 1 Whole Numbers

MULTIPLE CHOICE

1. The digit 6, when placed in the hundreds position, has a value of ____.
   A. 6
   B. 60
   C. 600
   D. 6,000

   ANS: C PTS: 1

2. A digit in the thousands position has a value ____ times the same digit when placed in the tens position.
   A. 10
   B. 100
   C. 1,000
   D. 10,000

   ANS: B PTS: 1

3. What is the digit in the millions place of the whole number 12,639,870?
   A. 1
   B. 2
   C. 3
   D. 6

   ANS: B PTS: 1

4. If the number 1,578 is rounded to the nearest hundred, what will it be?
   A. 1,500
   B. 1,550
   C. 1,600
   D. 1,650

   ANS: C PTS: 1

5. If the number 1,578 is rounded to the nearest ten, what will it be?
   A. 1,550
   B. 1,560
   C. 1,570
   D. 1,580

   ANS: D PTS: 1

6. Simplify: 456 + 35 + 71 + 10
   A. 570
   B. 572
   C. 574
   D. 576

   ANS: B PTS: 1

7. Simplify: 1,348 + 2 + 37,989

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A. 33,339
B. 33,399
C. 39,339
D. 39,399

ANS: C PTS: 1

8. Simplify: 378 – 231 + 12 – 150
A. 9
B. 19
C. 29
D. 39

ANS: A PTS: 1

9. Simplify: 6,901 + 3 + 434 – 1
A. 7,333
B. 7,337
C. 7,377
D. 7,737

ANS: B PTS: 1

10. Simplify: 12,343,567 – 11,798,305 + 45,562 – 34
A. 509,799
B. 519,709
C. 579,990
D. 590,790

ANS: D PTS: 1

11. Calculate: 10^3
A. 10
B. 30
C. 100
D. 1,000

ANS: D PTS: 1

12. Calculate: 5^8
A. 40
B. 15,625
C. 390,625
D. 1,953,125

ANS: C PTS: 1

13. Calculate: 10^{-2}
A. –20
B. –100
C. 1/100
D. 1/200

ANS: C PTS: 1

14. What is the *square* of 25?

A. 50
B. 125
C. 250
D. 625

ANS: D PTS: 1

15. In mathematical equations with multiple operations, which of the following calculations is completed first?
A. Addition from left to right.
B. Anything in parentheses.
C. Multiplication from left to right.
D. Any order will work.

ANS: B PTS: 1

TRUE/FALSE

16. A positive number is a number that has a value of greater than zero.

ANS: T PTS: 1

17. A negative number is a number that has a value of less than zero.

ANS: T PTS: 1

18. The digit 4 has a value greater than the digit 7.

ANS: F PTS: 1

19. The digit 4, when placed in the tens position, has a value greater than the digit 5 when placed in the ones position.

ANS: T PTS: 1

20. This sign < indicates *greater than*.

ANS: F PTS: 1

21. This sign < indicates *less than*.

ANS: T PTS: 1

22. The number 347, when rounded to the nearest ten, will be 350.

ANS: T PTS: 1

23. 471 divided by 3 = 157.

ANS: T PTS: 1

24. 5,828 divided by 4 = 1475.

ANS: F PTS: 1

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25. $47 \times 13 = 611$.

ANS: T PTS: 1

26. $14^2 = 169$

ANS: F PTS: 1

27. $1^5 = 5$

ANS: F PTS: 1

28. $-5 \times -10 = -50$

ANS: F PTS: 1

29. $-8 \div 2 = -4$

ANS: T PTS: 1

30. $-14 \times -10 = 140$

ANS: T PTS: 1

MATCHING

For the number 1,279,486, match the digit with the correct place value.

A. Hundreds place
B. Hundred thousands place
C. Millions place
D. Ones place
E. Tens place
F. Ten thousands place
G. Thousands place

31. In which place value is the 1?
32. In which place value is the 8?
33. In which place value is the 2?
34. In which place value is the 4?
35. In which place value is the 6?

31. ANS: C PTS: 1
32. ANS: E PTS: 1
33. ANS: B PTS: 1
34. ANS: A PTS: 1
35. ANS: D PTS: 1

For the number 56,190 match the digit with the correct place value.

A. Hundreds place
B. Hundred thousands place
C. Millions place

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D. Ones place
E. Tens place
F. Ten thousands place
G. Thousands place

36. In which place value is the 1?
37. In which place value is the 5?
38. In which place value is the 0?
39. In which place value is the 9?
40. In which place value is the 6?

36. ANS: A PTS: 1
37. ANS: F PTS: 1
38. ANS: D PTS: 1
39. ANS: E PTS: 1
40. ANS: G PTS: 1

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