

CHAPTER

1

Quiz

Section A

Select the best answer.

1. Order the numbers π , $\frac{10}{3}$, -3.34 , $3.\bar{2}$, 0 from least to greatest.
- A $-3.34, 0, \pi, 3.\bar{2}, \frac{10}{3}$
 B $-3.34, 0, 3.\bar{2}, \pi, \frac{10}{3}$
 C $-3.34, 0, \frac{10}{3}, 3.\bar{2}, \pi$
 D $0, \pi, 3.\bar{2}, \frac{10}{3}, -3.34$
2. Use interval notation to represent $-9 < x \leq 9$.
- F $\{x \mid -9 < x \leq 9\}$
 G $(-9, 9)$
 H $[-9, 9]$
 J $(-9, 9]$
3. Identify the property demonstrated by $3 \cdot (4 + 5) = (3 \cdot 4) + (3 \cdot 5)$.
- A Associative Property
 B Commutative Property
 C Distributive Property
 D Additive Identity Property
4. Use mental math to find the 15% tip for a \$22.80 restaurant bill.
- F \$1.14 H \$4.56
 G \$3.42 J \$34.20
5. Estimate $\sqrt{28}$ to the nearest tenth.
- A 5 C 5.3
 B 5.1 D 5.5
6. Simplify $\frac{3\sqrt{2}}{\sqrt{7}}$.
- F $\frac{3\sqrt{14}}{7}$ H $\frac{42}{7}$
 G $\frac{3\sqrt{14}}{\sqrt{7}}$ J $\frac{42}{\sqrt{7}}$
7. Simplify $7\sqrt{7} + \sqrt{28}$.
- A $3\sqrt{7}$ C $11\sqrt{7}$
 B $9\sqrt{7}$ D 63
8. Evaluate $2y - xy - 4x$ for $x = 4$ and $y = -2$.
- F -28 H -16
 G -18 J -12
9. Simplify $y(6y + 2x) - xy + 11y^2$.
- A $17y^2 - xy$
 B $17y^2 + xy$
 C $17y^2 + 2xy$
 D $17xy^3$
10. Evaluate 2^{-4} .
- F $\frac{1}{16}$ H 8
 G $\frac{1}{8}$ J 16
11. Simplify $\left(\frac{2xy^4}{x^8}\right)^3$. Assume all variables are nonzero.
- A $\frac{y^{12}}{x^{21}}$ C $\frac{8y^{12}}{x^{21}}$
 B $\frac{4y^{12}}{x^{21}}$ D $\frac{8y^{12}}{x^{27}}$
12. Evaluate the expression $\frac{2.0 \times 10^{10}}{8.0 \times 10^{-2}}$ and write the answer using scientific notation.
- F 2.5×10^7
 G 0.25×10^{12}
 H 2.5×10^{11}
 J 2.5×10^{13}

Answer Key

PLACEMENT TEST

1. A
2. J
3. A
4. J
5. A
6. F
7. A
8. H
9. B
10. J
11. C
12. F
13. C
14. J
15. D
16. G
17. C
18. H
19. B
20. G
21. C
22. G
23. C
24. F
25. D
26. G
27. D
28. H
29. D
30. H
31. A

32. H
33. D
34. G
35. C
36. G
37. C
38. G
39. C
40. G
41. B
42. H
43. C
44. G
45. C
46. G
47. C
48. H
49. A
50. G
51. D

CHAPTER 1

Section Quiz: Section A

1. A
2. J
3. C
4. G
5. C
6. F
7. B
8. J
9. B
10. F

Answer Key continued

11. C

12. H

Section Quiz: Section B

1. C

2. H

3. B

4. J

5. A

6. H

7. B

Chapter Test Form A

1. A

2. B

3. C

4. A

5. B

6. A

7. C

8. A

9. A

10. B

11. B

12. A

13. B

14. B

15. A

16. B

17. A

18. C

19. B

20. C

Chapter Test Form B

1. C

2. G

3. A

4. H

5. C

6. J

7. D

8. F

9. C

10. G

11. B

12. G

13. A

14. J

15. C

16. G

17. D

18. J

19. A

20. H

Chapter Test Form C

1. B

2. F

3. B

4. J

5. C

6. F

7. D

8. G

9. D

10. H