

Descriptive Mathematical Skills Practice Test

1. $4(h + 2) =$

A. $h + 6$

B. $4h + 2$

C. $4h + 6$

D. $4h + 8$

2. $-7 - 4 =$

A. -11

B. -3

C. 11

D. 3

3. If $r + 4 = 7$, then $r - 1 =$

A. 2

B. 3

C. 4

D. 10

4. $\frac{(-3)8}{-6} =$

A. 4

B. -4

C. $\frac{11}{6}$

D. $-\frac{11}{6}$

5. $8 + (-4) + 1 =$

A. 13

B. -3

C. 5

D. 3

6. Of the following, which is more than -2 ?

A. $-\frac{15}{3}$

B. $-\frac{5}{5}$

C. $-\frac{6}{2}$

D. $-\frac{10}{4}$

7. $36 \div (4 \times 3) =$

A. 3

B. 27

C. $\frac{36}{7}$

D. $\frac{7}{36}$

8. $x^2 - 64 =$

A. $(x - 8)^2$

B. $(x + 8)^2$

C. $(x - 8)(x + 8)$

D. $(8 - x)(8 + x)$

9. If $5y = 25 - y$, then $y =$

A. $\frac{4}{25}$

B. $\frac{25}{4}$

C. $\frac{6}{25}$

D. $\frac{25}{6}$

10. If $x = -2$ and $y = -15$ then $x - y =$

A. 13

B. -13

C. 17

D. -17

11. $3x - 4 < -17$ is equivalent to:

A. $x < -7$

B. $x > -7$

C. $x < -\frac{13}{3}$

D. $x > -\frac{13}{3}$

12. $(3y + 4)(y - 2)$

A. $3y^2 - 2y - 8$

B. $3y^2 + 2y - 8$

C. $3y^2 - 2y + 8$

D. $3y^2 + 2y + 8$

13. $20 - 4r - 7 + 8r =$

A. $27 + 4r$

B. $27 - 4r$

C. $13 + 4r$

D. $13 - 4r$

14. $|-14 + 3| =$

A. 17

B. -17

C. 11

D. -11

15. $(r - 4)^2$

A. $r^2 - 8r - 16$

B. $r^2 - 8r + 16$

C. $r^2 + 8r - 16$

D. $r^2 + 8r + 16$

16. If the sum of 5 numbers is 60, what is the average (arithmetic mean) of the numbers?

A. 65

B. 30

C. 12

D. $\frac{1}{12}$

17. If a hamburger costs 79 cents (\$0.79), which represents the cost of x hamburgers?

A. $\$0.79 (x)$

B. $x - \$0.79$

C. $\frac{\$0.79}{x}$

D. $x + \$0.79$

18. If a cube measures 3 inches on an edge, what is its volume in cubic inches?

A. 9

B. 6

C. 27

D. 12

19. Karen bought b paperbacks at \$3.95 each and c hardcovers at \$12.95 each. What represents the total amount she spent?

A. $\$3.95 b + \$12.95 c$

B. $\$3.95 c + \$12.95 b$

C. $\$16.90 bc$

D. $\$16.90 (b + c)$

20. Which of the following is equivalent to: $2y + 13 < 8y + 2$

A. $\frac{15}{6} > y$

B. $\frac{11}{6} > y$

C. $\frac{15}{6} < y$

D. $\frac{11}{6} < y$

21. $(2x^4y)^3 =$

A. $8x^7y^3$

B. $8x^{12}y^3$

C. $6x^7y^3$

D. $6x^{12}y^3$

22. At what point does the line $y = 3x - 5$ cross the y axis:

A. $(0, -15)$

B. $(0, -5/3)$

C. $(0, -5)$

D. $(0, -3/5)$

23. Debbie's grades on 5 exams:

EXAM

GRADE

1

94

2

85

3

91

4

82

5

x

On exam 2, 3 points were deducted for each wrong answer. How many of Debbie's answers were wrong?

A. 3

B. 5

C. 2

D. 6

24. If Debbie's average for the 5 tests was 89, what was her score on test 5?

A. 89

B. 93

C. 88

D. 92

25. A number y is multiplied by 14 and then 4 is subtracted from the result. Express this:
- A. $10y$
 - B. $14(y-4)$
 - C. $14y - 4$
 - D. $14y + 4$
26. A carton has dimensions of 12 inches by 4 inches by 4 inches. How many cubes which measure 1 inch on an edge will fit inside the carton?
- A. 20
 - B. 192
 - C. 48
 - D. 96
27. $12x^4y - 3x^3y^4 =$
- A. $3x^3y(4x + y^3)$
 - B. $3x^3y(4x - y^3)$
 - C. $3xy(4x^4 + x^3y^4)$
 - D. $3xy(4x^4 - x^3y^4)$
28. If y sheet pizzas are each cut into 12 equal pieces which of the following represents how the pizzas are divided?
- A. $y - 12$
 - B. $y + 12$
 - C. $\frac{y}{12}$
 - D. $\frac{12}{Y}$

29. Which are the factors of: $x^2 - 4x - 21$

A. $(x + 3)(x + 7)$

B. $(x - 3)(x - 7)$

C. $(x + 3)(x - 7)$

D. $(x - 3)(x + 7)$

30. $\frac{5^{10}}{5^5} =$

A. 5^2

B. 5^5

C. 1^2

D. 1^5

Descriptive Mathematical Skills Practice Test

ANSWERS

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