Directions: This test will measure your skills in solving basic mathematical operations. Choose the best answer from the given choices.

1. $7.86 \times 4.6 =$

A. 36.156

B. 36.216

C. 351.56

D. 361.56

2. $3 \times 10^5)(2 \times 10^1)$

A. 6×100^6

B. 6×10^5

C. 6×10^6

D. 5×20^6

3. $5.2 \div .004 =$

A. 1.3

B. 13.0

C. 130

D. 1300

4. $(-2)(-3) + 4(5-7) =$

A. -18

B. -3

C. -20

D. -2

5. 2.41095 – 0.1993 =

A. 2.6102

B. 2.21165

C. 2.39102

D. 2.39165

6. 3 · {(300 – 70 ÷ 5) – [3 · 23 – (8 – 2 · 3)]}

A. 2433

B. 657

C. 607

D. -843

7. 2.75 + .003 + .158 =

A. 4.36

B. 2.911

C. 0.436

D. 2.938

8. (3x – 2) (4x + 1) =

A. $12x^2 - 8x - 2$

B. $12x^2 + 5x - 2$

C. $x^2 - 5x - 2$

D. $12x^2 - 5x - 2$

9. $7/20 =$

A. 0.035

B. 0.858

C. 0.35

D. 3.5

10. Solve the equations:

$3x + 4y = 11$

$x - 2y = -3$

A. x = 1 y = 2

B. x = -1 y = 3/4

C. x = 2 y = -3

D. x = 1 y = -2

11. $3(8 - 3) + \sqrt{49}$

A. 28

B. 36

C. 22

D. 40

12. (2 ¼) (3 ⅓) =

A. 15⁄2

B. 30⁄12

C. 6

D. 27⁄40

13. 2 + (⅓)^2 - 4⁄9

A. 35⁄9

B. -1 4⁄9

C. 17⁄9

D. 1 2⁄3

14. (.3)^2 + (.03)^2 =

A. .099

B. .9900

C. .0909

D. .9090

15. 3[(7 - 5) 2 + (20 - 19) 2] + 14

A. 3

B. 57

C. 29

D. 1

16. $4[3 + 7(9^2)]$

A. 2280

B. 15, 888

C. 69, 696

D. 17, 424

17. $[2 \div (4 - 2) + 8^2] - [2 - (-1)]^2$

A. 62

B. 68

C. 60

D. 56