

NAME : _____

CLASS : _____

DATE : _____

1.

$$7) -3\sqrt{8} + 3\sqrt{18}$$

A) $-3\sqrt{2}$

B) $6\sqrt{2}$

C) $15\sqrt{2}$

D) $3\sqrt{2}$

☐ a) A

☐ b) B

☐ c) C

☐ d) D

2.

$$13) \sqrt{5}(2 + 3\sqrt{5})$$

A) $4\sqrt{5} - 40$

B) $25\sqrt{2} + 2$

C) $2\sqrt{5} + 15$

D) $2\sqrt{3} + 5$

☐ a) A

☐ b) B

☐ c) C

☐ d) D

3.

$$14) (2\sqrt{5} + \sqrt{2})(-5\sqrt{5} + 3\sqrt{2})$$

A) -44

B) -8

C) $-4\sqrt{5} + 2\sqrt{3}$

D) $-44 + \sqrt{10}$

☐ a) A

☐ b) B

☐ c) C

☐ d) D

4.

16) $\frac{\sqrt{3}}{3\sqrt{2}}$

A) $\frac{\sqrt{6}}{6}$

C) $\frac{5\sqrt{10}}{2}$

B) $\frac{2\sqrt{5}}{15}$

D) $\frac{2\sqrt{5}}{5}$

☐ a) A

☐ c) C

☐ b) B

☐ d) D

5.

18) $\frac{\sqrt{5}}{\sqrt{2}}$

A) $2\sqrt{6}$

C) $\frac{\sqrt{10}}{2}$

B) $\frac{\sqrt{10}}{5}$

D) $\frac{\sqrt{15}}{5}$

☐ a) A

☐ c) C

☐ b) B

☐ d) D

6.

11) $\sqrt{20} \cdot \sqrt{5}$

A) $\sqrt{30}$

C) 100

B) 10

D) 5

☐ a) A

☐ c) C

☐ b) B

☐ d) D

7. $\sqrt{8} - 6\sqrt{2}$

☐ a) $-4\sqrt{2}$

☐ c) $-6\sqrt{6}$

☐ b) $2\sqrt{2}$

☐ d) $-6\sqrt{10}$

8. $\sqrt{18} + \sqrt{2}$

☐ a) $\sqrt{20}$

☐ c) $4\sqrt{2}$

☐ b) $4\sqrt{5}$

☐ d) $10\sqrt{2}$

9. $\sqrt{5} \times \sqrt{10}$

☐ a) 50

☐ c) $5\sqrt{2}$

☐ b) $2\sqrt{5}$

☐ d) $5\sqrt{10}$

10. $2\sqrt{3}(\sqrt{6} - \sqrt{3})$

☐ a) $6\sqrt{2} - 6$

☐ c) $6 - \sqrt{3}$

☐ b) $3\sqrt{2} + 3$

☐ d) $\sqrt{3} - \sqrt{2}$

11. $\sqrt{98} + 5\sqrt{2}$

☐ a) $8\sqrt{3}$

☐ c) $7\sqrt{2}$

☐ b) $12\sqrt{2}$

☐ d) $7\sqrt{3}$

12. $\sqrt{300} + \sqrt{75}$

☐ a) $15\sqrt{3}$

☐ c) $20\sqrt{5}$

☐ b) $\sqrt{375}$

☐ d) $16\sqrt{5}$

13.

$$\frac{\sqrt{5}}{\sqrt{10}}$$

Simplify the expression:

$$\sqrt{5} / \sqrt{10}$$

☐ a) $5\sqrt{2} / 10$

☐ c) $2\sqrt{2}$

☐ b) $\sqrt{2} / 2$

☐ d) $5\sqrt{50} / 10$

14.

$$\frac{10}{\sqrt{5}}$$

Simplify the following expression: $10 / \sqrt{5}$

☐ a) $10\sqrt{5} / 5$

☐ c) $2\sqrt{5}$

☐ b) $10\sqrt{5} / \sqrt{25}$

☐ d) $2\sqrt{5} / 5$

15.

$$\frac{4\sqrt{3}}{\sqrt{2}}$$

Simplify the expression:

$$4\sqrt{3} / \sqrt{2}$$

☐ a) $4\sqrt{6} / 2$

☐ c) $2\sqrt{3}$

☐ b) $4\sqrt{3} / 2$

☐ d) $2\sqrt{6}$

16.

$$\frac{6}{\sqrt{3}}$$

Simplify the expression:

$$6 / \sqrt{3}$$

☐ a) $\sqrt{18}/3$

☐ c) $6\sqrt{3}/3$

☐ b) $2\sqrt{3}$

☐ d) 6

17.

$$\frac{\sqrt{5}}{\sqrt{10}}$$

Simplify the expression:

$$\sqrt{5} / \sqrt{10}$$

☐ a) $5\sqrt{2} / 10$

☐ c) $2\sqrt{2}$

☐ b) $\sqrt{2} / 2$

☐ d) $5\sqrt{50} / 10$

18.

$$\sqrt{18}$$

Simplify the expression:

$$\sqrt{18}$$

☐ a) $\sqrt{18}$

☐ c) $3\sqrt{2}$

☐ b) $9\sqrt{2}$

☐ d) $2\sqrt{3}$

19.

$$\sqrt{30}$$

Simplify the expression:

$$\sqrt[3]{30}$$

☐ a) $\sqrt[3]{30}$

☐ c) $6\sqrt[3]{5}$

☐ b) $3\sqrt[3]{5}$

☐ d) $3\sqrt[3]{6}$

20.

$$\frac{3\sqrt{8}}{\sqrt{3}}$$

Simplify the expression:

$$3\sqrt{8} / \sqrt{3}$$

☐ a) $2\sqrt{6}$

☐ c) $\sqrt{8}$

☐ b) $\sqrt{24}$

☐ d) $3\sqrt{24} / 3$