



Assumption College Ubonratchathani
English for Math 2

Name:.....

Class:.....

No.

**Expressing Surds in Standard Form
or Simplest Form**

การแสดง Surds ในรูปแบบมาตรฐาน
หรือรูปแบบที่ง่ายที่สุด



Example 1: Simplify $\sqrt{8}$

Solution: $\sqrt{8} = \sqrt{4 \times 2} = \sqrt{4} \times \sqrt{2} = 2\sqrt{2}$

Example 2: Simplify $5\sqrt{18}$

Solution: $5\sqrt{18} = 5\sqrt{9 \times 2} = 5\sqrt{9} \times \sqrt{2} = 5 \times 3\sqrt{2} = 15\sqrt{2}$

Express each surd in standard or simplest form.

1. $\sqrt{32}$

a. $2\sqrt{2}$

b. $4\sqrt{2}$

c. $3\sqrt{2}$

2. $\sqrt{45}$

a. $9\sqrt{5}$

b. $3\sqrt{15}$

c. $3\sqrt{5}$

3. $\sqrt{27}$

a. $3\sqrt{3}$

b. $9\sqrt{3}$

c. $3\sqrt{9}$

4. $\sqrt{40}$

a. $4\sqrt{10}$

b. $4\sqrt{5}$

c. $2\sqrt{10}$

5. $\sqrt{80}$

a. $16\sqrt{5}$

b. $4\sqrt{5}$

c. $8\sqrt{5}$

6. $\sqrt{63}$

a. $9\sqrt{7}$

b. $7\sqrt{3}$

c. $3\sqrt{7}$

7. $\sqrt{75}$

a. $25\sqrt{3}$

b. $5\sqrt{3}$

c. $3\sqrt{25}$

8. $2\sqrt{20}$

a. $4\sqrt{5}$

b. $4\sqrt{10}$

c. $6\sqrt{5}$

9. $3\sqrt{28}$

a. $3\sqrt{7}$

b. $12\sqrt{7}$

c. $6\sqrt{7}$

10. $2\sqrt{72}$

a. $12\sqrt{3}$

b. $12\sqrt{2}$

c. $6\sqrt{2}$



"Diligence is the mother of good luck."

"ความขยันเป็นมารดาของความโชคดี"

- Benjamin Franklin