

1

Simplify the radical expression below:

$$\sqrt{48}$$

A) $16\sqrt{3}$

Ms. Lee

B) $6\sqrt{2}$

Ms. Glawe

C) $4\sqrt{3}$

Ms. Whittaker

D) $16\sqrt{2}$

Ms. Vale

E) $6\sqrt{3}$

Ms. Cramarosso

2

Simplify the radical expression below:

$$\frac{\sqrt{27}}{\sqrt{36}}$$

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

excited

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

surprised

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

shocked

D) $\frac{\sqrt{27}}{6}$

confused

E) $2\sqrt{3}$

thrilled

3

Simplify the radical expression below:

$$\sqrt{18} + \sqrt{32} + \sqrt{75}$$

A) $12\sqrt{6}$

watching Netflix

B) $5\sqrt{3} + 7\sqrt{4}$

making pigs in a blanket

C) $12\sqrt{12}$

drinking Crush

D) $5\sqrt{3} + 7\sqrt{2}$

watching a Cubs game

E) $25\sqrt{3} + 7\sqrt{2}$

grading papers

4

Simplify the radical expression below:

$$\sqrt{\frac{5}{3}}$$

A) $\frac{\sqrt{5}}{3}$

Milo

B) $\frac{\sqrt{15}}{9}$

Tom Hanks

C) $\frac{5}{3}$

Anthony Rizzo

D) $\frac{\sqrt{5}}{\sqrt{3}}$

Walter and Bernard

E) $\frac{\sqrt{15}}{3}$

Ryan Gosling

5 Simplify the radical expression below:

$$\sqrt{30} \cdot \sqrt{12}$$

A) $6\sqrt{10}$

National Pizza Day

B) $9\sqrt{20}$

Valentine's Day

C) $3\sqrt{40}$

St. Patrick's Day

D) $12\sqrt{10}$

the 4th of July

E) $36\sqrt{10}$

the last day of school

6

Solve for x.

$$(3\sqrt{5})^2 + (3\sqrt{2})^2 = x^2$$

A) $\pm\sqrt{21}$

The Ohio State University

B) $\pm 3\sqrt{7}$

the beach in Jamaica

C) $\pm\sqrt{63}$

Penn State

D) $\pm 4\sqrt{15}$

Universal Studios

E) $\pm 9\sqrt{7}$

Wrigley Field

7

Simplify the radical expression below:

$$\sqrt{72} + \sqrt{27} - \sqrt{48}$$

A) $6\sqrt{2} - \sqrt{3}$

a giant bubble

B) $36\sqrt{2} + 7\sqrt{3}$

a hot-air balloon

C) $6\sqrt{2} - 7\sqrt{3}$

a fish tank

D) $6\sqrt{2} + 7\sqrt{3}$

a wagon

E) $6\sqrt{2} + \sqrt{3}$

a cardboard box

8

Solve for x.

$$x^2 = 200$$

A) $\sqrt{200}$

Harry Carey glasses

B) $2\sqrt{10}$

tu-tus

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

Blackhawks jerseys

D) $10\sqrt{2}$

suspenders

E) $\pm 2\sqrt{10}$

sumo suits

9

Simplify the radical expression below:

$$\sqrt{192}$$

A) $4\sqrt{12}$

running a marathon

B) $2\sqrt{48}$

doing a Mannequin Challenge

C) $3\sqrt{8}$

wrestling a bear

D) $8\sqrt{3}$

singing karaoke

E) $48\sqrt{2}$

somersaulting

10

Simplify the radical expression below:

$$5\sqrt{24} \cdot 3\sqrt{10}$$

A) $15\sqrt{240}$

to impress everyone

B) $60\sqrt{15}$

to promote the Alpha program

C) $17\sqrt{15}$

to have world peace

D) $30\sqrt{60}$

to win a bet

E) $8\sqrt{240}$

to perform a science experiment