



1

Round 2		Final Jeopardy		Scores		
Fraction to Decimal	Decimal to Fraction	Finding Exact Roots	Estimating Roots	Solving x^2 and x^3 equations	Rational or Irrational?	Least to Greatest
		\$100	\$100	\$100	\$100	\$100
	\$200	\$200	\$200	\$200	\$200	\$200
\$300		\$300	\$300	\$300	\$300	\$300
	\$400	\$400	\$400	\$400	\$400	\$400
\$500	\$500	\$500	\$500	\$500	\$500	\$500

2

\$100

Convert to a decimal:

$1\frac{2}{5}$

3

\$100

1.4

Scores

4

\$200

Convert to a decimal:

$\frac{7}{8}$

5

\$200

0.875

Scores

6

\$300

Convert to a decimal:

$$\frac{7}{11}$$

7

\$300

0. $\overline{63}$

Scores

8

\$400

Convert to a decimal:

$$\frac{45}{300}$$

9

\$400

0.15

Scores

10

\$500

Convert to a decimal:

$$\frac{33}{16}$$

11

\$500

2.0625

Scores

12

\$100

Convert to a fraction or mixed
number. Simplify if possible.
 $6.\overline{7}$

13

\$100

$$6\frac{7}{10}$$

Scores

14

\$200

Convert to a fraction or mixed
number. Simplify if possible:
 $0.\overline{177}$

15

\$200

$$\frac{177}{1000}$$

Scores

16

\$300

Convert to a fraction or mixed
number. Simplify if possible:
 $3.\overline{3}$

17

\$300

$$3\frac{1}{3}$$

Scores

18

\$400

Convert to a fraction or mixed number. Simplify if possible:
 $0.\overline{180}$

19

\$400

$$\frac{20}{111}$$

Scores

20

\$500

Convert to a fraction or mixed number. Simplify if possible:
 5.0004

21

\$500

$$5\frac{1}{2500}$$

Scores

22

\$100

Simplify:
 $8\sqrt{9}$

23

\$100

24

Scores

24

\$200

Simplify:

$$\pm \sqrt{\frac{25}{81}}$$

25

\$200

$$\frac{5}{9}, -\frac{5}{9}$$

Scores

26

\$300

Simplify: $\sqrt[3]{-125}$

27

\$300

$$-5$$

Scores

28

\$400

Simplify:
 $\sqrt[4]{16} + \sqrt{16}$

29

\$400

$$6$$

Scores

30

\$500

HOW MANY of these expressions
are undefined??? List them.

$\sqrt{-49}$

$-\sqrt{100}$

$\sqrt{7}$

$\sqrt[4]{-16}$

$\sqrt[3]{18}$

$\sqrt[3]{-18}$

$-\sqrt[3]{8}$

$\sqrt[5]{-100}$

$\sqrt[14]{-100}$

31

\$500

3 are undefined:

$\sqrt{-49}$

$\sqrt[4]{-16}$

$\sqrt[14]{-100}$

Scores

32

\$100

**Estimate the value to the nearest
tenth:**

$\sqrt{83}$

(I will accept anything in
a reasonable range)

33

\$100

9.1

(Acceptable answers: anything
between 9 and 9.5)

Scores

34

\$200

**Estimate the value to the nearest
tenth:**

$\sqrt{44}$

(I will accept anything in
a reasonable range)

35

\$200

6.6

(Acceptable answers: anything
between 6.5 and 7)

Scores

36

\$300**Estimate the value to the nearest tenth.**

$$\sqrt[3]{60}$$

(I will accept anything in a reasonable range)

37

\$300**3.9 (Acceptable answers: anything between 3.5 and 4)**

Scores

38

\$400**Estimate $\sqrt{52}$. Your answer MUST be accurate to the nearest tenth.**

39

\$400**7.2**

Scores

40

\$500**Estimate $\sqrt{128}$. Your answer MUST be accurate to the nearest tenth.**

41

\$500**11.3**

Scores

42

\$100

Solve (Find all values for x that
work!):
 $x^2 = 100$

43

\$100

$$x = 10, -10$$

Scores

44

\$200

Solve (Find all values for x that
work!):
 $x^3 = 27$

45

\$200

$$x = 3$$

Scores

46

\$300

Solve (Find all values for x that
work!):
 $x^3 = -216$

47

\$300

$$x = -6$$

Scores

48

\$400

Solve (Find all values for x that work!):
 $x^2 = -121$

49

\$400

No solution

Scores

50

\$500

Solve (Find all values for x that work!):
 $\frac{x^2}{4} = 9$

51

\$500

 $x = 6, -6$

Scores

52

\$100

Rational or Irrational?
 $\frac{123}{456}$

53

\$100

Rational

Scores

54

\$200

Rational or Irrational?

6.123859071

55

\$200

Rational

Scores

56

\$300

Rational or Irrational?

 $\sqrt[3]{6}$

57

\$300

Irrational

Scores

58

\$400

Rational or Irrational?

 $\frac{\pi^3}{\pi^2}$

59

\$400

Irrational (It = π !)

Scores

60

\$500

How many of these are Irrational?
List them.

4
2.5
 $2.\bar{5}$
1.78328256 ...
8.2222222 ...
 $\sqrt{16}$
 $\sqrt{18}$
 $\pi - \pi$

61

\$500

2 of them:
1.78328356...
 $\sqrt{18}$

Scores

62

\$100

Order from least to greatest:
 $-\sqrt{38}, -5, -\frac{17}{3}$

63

\$100

$-\sqrt{38}, -\frac{17}{3}, -5$

Scores

64

\$200

Order from least to greatest:
 $\sqrt{10}, \sqrt[3]{10}, \sqrt[4]{10}$

65

\$200

$\sqrt[4]{10}, \sqrt[3]{10}, \sqrt{10}$

Scores

66

\$300

Order from least to greatest:

$$\frac{7}{15}, 0.\overline{5}, \sqrt{2}, \frac{7}{16}$$

67

\$300

$$\frac{7}{16}, \frac{7}{15}, 0.\overline{5}, \sqrt{2}$$

Scores

68

\$400

Order from least to greatest:

$$\frac{27}{4}, \sqrt[3]{150}, 6\frac{7}{8}$$

69

\$400

$$\sqrt[3]{150}, \frac{27}{4}, 6\frac{7}{8}$$

Scores

70

\$500

Order from least to greatest:

$$\frac{3}{10}, \frac{\sqrt{2}}{2}, \frac{14}{50}, \frac{8000}{9000}, 0.333, 0.\overline{3}$$

71

\$500

$$\frac{14}{50}, \frac{3}{10}, 0.333, 0.\overline{3}, \frac{\sqrt{2}}{2}, \frac{8000}{9000}$$

Scores

72