Calculator License **Practice Exam** Name KEY

Date_____

- Compute each of the following without a calculator.
- Give an exact answer if possible. If not possible, round answers to 3 decimal places.
- Reduce all fractions to their simplest form.
- Simplify all radicals.
- Take your time and check your work carefully.
- Do scrap work on a separate sheet of paper if you need more room.

1) $3.6759+34.7653=$

34.7653
3.6759
38.4412

2) $13.5\times4.663=$

4.663
13.5
23315
13989
4663
62.9505

3) $37.5\div7=$

5.357
7|37.500
35
2.5
21
40
35
50
49
10

5.357

4) $4875\div124=$

39.3145
124|4875.000
372
1155
1116
390
372
180
124
560
496
640

39.315

5) $429-558=$

558
-429
129

-129

6) $4\frac{2}{7}+2\frac{2}{9}=$

$\frac{30}{7}+\frac{20}{9}$

$\frac{270}{63}+\frac{140}{63}=\frac{410}{63}$

7) $\sqrt[4]{(4^3)^2} =$

$= (4^6)^{\frac{1}{4}}$

$= 4^{\frac{3}{2}}$

$= 8$

8) $\frac{3}{5} \times \frac{4}{7} =$ $\frac{12}{35}$

9) $\frac{3}{10} \div \frac{15}{320} =$

$\frac{3}{10} \cdot \frac{320}{15} = \frac{32}{5}$

10) $\sqrt{13^2 - 12^2} = \sqrt{169 - 144}$

$= \sqrt{25}$

$= 5$

11) $2^2\left(8+4\left(2^2-(-5)^2\right)-6\right) =$

$4(8+4(4-25)-6)$

$4(8+4(-21)-6)$

$4(8-84-6)$

$4(-82) = -328$

12) $3\sqrt{28} + 2\sqrt{112} =$

$3 \cdot 2\sqrt{7} + 2 \cdot 4\sqrt{7}$

$6\sqrt{7} + 8\sqrt{7}$

$14\sqrt{7}$

$7\overline{)112}$ 16, 7, 42

13) $(x+3)^0 =$

1

14) $6 \div 3\frac{2}{7} =$

$6 \div \frac{23}{7}$

$6 \cdot \frac{7}{23} = \frac{42}{23}$

15) $27^{\frac{1}{3}} =$ 3

16) 62% of 48 =

$\frac{62}{100} = \frac{x}{48}$

$2976 = 100x$

$x = 29.76$

1
62
48
496
248
2976

17) 72% of 83

2
83
.72
166
581
59.76

18) $\frac{3}{13} =$ _____ %

.230
13 | 3.00000
26
40
39
10

23%

19) 0.035 = _____ %

3.5%

20) 56 is _____% of 86

$\frac{56}{86} = \frac{x}{100}$

65.116%

$5600 = 86x$

65.1162
3
86 | 5600.000
516
440
430
100
86
140
86
540

540
516
240